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1977/78

Quarterly Bulletin

1977-78

# MIDWESTERN STATE UNIVERSITY

Wichita Falls, Texas





**QUARTERLY BULLETIN**

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**1977-1978**

**MIDWESTERN  
STATE  
UNIVERSITY**

**3400 Taft Boulevard  
Wichita Falls, Texas 76308**

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# Academic Organizations

## The School of Business Administration and Economics

- Department of Accounting
- Department of Business and Secretarial Administration
- Department of Economics

## The School of Education

- Department of Education
- Department of Health, Physical Education and Recreation

## The School of Humanities and Social Sciences

- Department of Art
- Department of Biblical History and Literature
- Department of English
- Department of Foreign Languages
- Department of History
- Department of Music
- Department of Political Science
- Department of Psychology, Sociology and Anthropology
- Department of Speech and Drama

## The School of Sciences and Mathematics

- Department of Biology
- Department of Chemistry
- Department of Geological Sciences
- Department of Mathematical Sciences
- Department of Nursing
- Department of Physics
- Division of Health Sciences

## Division of Continuing Education

## Department of Military Science

## Office of Technical and Occupational Programs

Seven graduate degrees are offered by the School of Graduate Studies.

## The School of Business

- Master of Business Administration

## The School of Education

- Master of Education
- Master of Science in Physical Education

## The School of Humanities and Social Sciences

- Master of Arts
- Master of Music
- Master of Music Education

## The School of Sciences and Mathematics

- Master of Science



# Midwestern State University

## Board of Regents

|   |                      |               |
|---|----------------------|---------------|
| Carter McGregor Jr.                         | <b>Chairman</b>      | Wichita Falls |
| Frank J. Douthitt                           | <b>Vice Chairman</b> | Henrietta     |
| W. Ben Huckabý, M.D.                        | <b>Secretary</b>     | Wichita Falls |
| Sherrill Burba                              |                      | Olney         |
| R. E. (Gene) Chambers                       |                      | Wichita Falls |
| Gen. Gabriel Disosway (U.S. Air Force Ret.) |                      | Dallas        |
| William G. Paul                             |                      | Jacksonville  |
| William M. Thacker Jr.                      |                      | Wichita Falls |
| Martin F. Wood                              |                      | Dallas        |

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\*Campus Phone Number 692-6611, Area Code 817

# Academic Calendar

1977

S M T W T F S

MAY

S M T W T F S  
1 2 3 4 5 6 7  
8 9 10 11 12 13 14  
15 16 17 18 19 20 21  
22 23 24 25 26 27 28  
29 30 31 .....

JUNE

S M T W T F S  
..... 1 2 3 4  
5 6 7 8 9 10 11  
12 13 14 15 16 17 18  
19 20 21 22 23 24 25  
26 27 28 29 30 .....

JULY

S M T W T F S  
..... 1 2  
3 4 5 6 7 8 9  
10 11 12 13 14 15 16  
17 18 19 20 21 22 23  
24 25 26 27 28 29 30  
31 .....

AUGUST

S M T W T F S  
.. 1 2 3 4 5 6  
7 8 9 10 11 12 13  
14 15 16 17 18 19 20  
21 22 23 24 25 26 27  
28 29 30 31 .....

SEPTEMBER

S M T W T F S  
..... 1 2 3  
4 5 6 7 8 9 10  
11 12 13 14 15 16 17  
18 19 20 21 22 23 24  
25 26 27 28 29 30 .....

OCTOBER

S M T W T F S  
..... 1  
2 3 4 5 6 7 8  
9 10 11 12 13 14 15  
16 17 18 19 20 21 22  
23 24 25 26 27 28 29  
30 31 .....

NOVEMBER

S M T W T F S  
..... 1 2 3 4 5  
6 7 8 9 10 11 12  
13 14 15 16 17 18 19  
20 21 22 23 24 25 26  
27 28 29 30 .....

DECEMBER

S M T W T F S  
..... 1 2 3  
4 5 6 7 8 9 10  
11 12 13 14 15 16 17  
18 19 20 21 22 23 24  
25 26 27 28 29 30 31

SPRING SEMESTER

May 9-14  
May 21

SUMMER SESSION

First Term

June 1  
June 2  
June 3  
June 6  
July 4  
July 11

Second Term

July 8  
July 11  
July 12  
July 15  
August 13

1977

Examinations  
Commencement 8 p.m.

1977

Freshman ACT Test  
Student Orientation  
Registration\*  
Classes begin 8 a.m.  
Holiday  
Examinations

Freshman ACT Test  
Orientation-Registration\*  
Classes begin 8 a.m.  
Last day August graduates to file  
Application for Graduation  
Examinations

\*Since the summer session is concentrated into 27 class meetings, there will be no late registration nor change in schedule after the scheduled registration date.

FALL SEMESTER

August 15  
August 22  
August 22  
August 23-24  
August 25-26  
August 29  
August 31

September 5  
November 1

November 23

November 28  
December 9  
December 12-17

1977

Deadline for Application for Admission  
Freshman ACT Test  
Faculty Meetings  
Student Orientation  
Registration  
Classes begin 8 a.m.  
Change of Schedule or Late Registration  
Labor Day holiday  
Deadline for May graduates to file for graduation  
Thanksgiving holidays begin 9:30 p.m.  
Classes resume 8 a.m.  
Last class day  
Examinations

# Academic Calendar

1978

## SPRING SEMESTER

1978

|               |  |
|---------------|--|
| January 2     | Deadline for Application for Admission   |
| January 9     | Freshman ACT Test  |
| January 10-11 | Student Orientation  |
| January 12-13 | Registration   |
| January 16    | Classes begin 8 a.m.   |
| January 18    | Change of Schedule or Late Registration  |
| March 3       | Deadline for May graduates (not enrolled for fall semester) to file for graduation |
| March 11      | Spring Break begin 5 p.m.  |
| March 21      | Classes resume 8 a.m.  |
| March 17      | Easter holidays begin 9:30 p.m.  |
| March 28      | Classes resume 8 a.m.  |
| May 5         | Last class day   |
| May 8-13      | Examinations   |
| May 20        | Commencement 8 p.m.  |

## SUMMER SESSION

1978

### First Term

|         |                      |
|---------|----------------------|
| May 31  | Freshman ACT Test    |
| June 1  | Student Orientation  |
| June 2  | Registration*        |
| June 5  | Classes begin 8 a.m. |
| July 4  | Holiday              |
| July 13 | Examinations         |

### Second Term

|           |   |
|-----------|---|
| July 12   | Freshman ACT Test   |
| July 13   | Orientation-Registration*                                     |
| July 14   | Classes begin 8 a.m.  |
| July 19   | Last day August graduates can file Application for Graduation |
| August 19 | Examinations  |

\*Since the summer session is concentrated into 27 class meetings, there will be no late registration nor change in schedule after the scheduled registration date.

## FALL SEMESTER

1978 (Projected)

|              |  |
|--------------|--|
| August 21    | Deadline for Application for Admission |
| August 28    | Freshman ACT Test                      |
| August 28    | Faculty Meetings                       |
| August 29-30 | Student Orientation                    |
| August 31-   |  |
| September 1  | Registration                           |
| September 4  | Labor Day Holiday                      |
| September 5  | Classes begin 8 a.m.                   |

S M T W T F S

### JANUARY

|    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|
| S  | M  | T  | W  | T  | F  | S  |
| 1  | 2  | 3  | 4  | 5  | 6  | 7  |
| 8  | 9  | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 |    |    |    |    |

### FEBRUARY

|    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|
| S  | M  | T  | W  | T  | F  | S  |
|    |    |    | 1  | 2  | 3  | 4  |
| 5  | 6  | 7  | 8  | 9  | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 |    |    |    |    |

### MARCH

|    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|
| S  | M  | T  | W  | T  | F  | S  |
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| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 | 31 |    |

### APRIL

|    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|
| S  | M  | T  | W  | T  | F  | S  |
|    |    |    |    |    |    | 1  |
| 2  | 3  | 4  | 5  | 6  | 7  | 8  |
| 9  | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 |    |    |    |    |    |    |

### MAY

|    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|
| S  | M  | T  | W  | T  | F  | S  |
|    | 1  | 2  | 3  | 4  | 5  | 6  |
| 7  | 8  | 9  | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 31 |    |    |    |

### JUNE

|    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|
| S  | M  | T  | W  | T  | F  | S  |
|    |    |    |    | 1  | 2  | 3  |
| 4  | 5  | 6  | 7  | 8  | 9  | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 |    |

### JULY

|    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|
| S  | M  | T  | W  | T  | F  | S  |
|    |    |    |    |    |    | 1  |
| 2  | 3  | 4  | 5  | 6  | 7  | 8  |
| 9  | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 |    |    |    |    |    |

### AUGUST

|    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|
| S  | M  | T  | W  | T  | F  | S  |
|    |    |    |    | 1  | 2  | 3  |
| 4  | 5  | 6  | 7  | 8  | 9  | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 |



## **APPLICABILITY OF CATALOG REGULATIONS**

The student may receive a degree from Midwestern State University in accordance with the requirements stated in the catalog in effect at the time he enters the university or those of any subsequent year provided that he completes the requirements within six years of the date of the catalog selected and earns a minimum of twelve semester hours during the year it was in effect. The degree requirements must be from one catalog.

All regulations and conditions other than those stated above are subject to change. These changes may supersede catalog regulations.

A separate publication, The Student Handbook, is published once each year. The rules and regulations stated in the handbook are applicable to all students.

## **University Accreditation and Membership**

**ACCREDITATION** American Chemical Society  
American Dental Association  
Council of Medical Education, American Medical Association  
National Association of Schools of Music  
National Council for Accreditation of Teacher Education  
(Undergraduate Program)  
National League for Nursing  
Southern Association of Colleges and Schools  
Texas Association of Schools of Music  
Texas Education Agency  
Texas Board of Nurse Examiners

**MEMBERSHIP** American Association for Accreditation of Teacher Education  
American Association of Dental Schools  
American Association of State Colleges and Universities  
American Council on Education  
American Society of Allied Health Professions  
Association of Texas Graduate Schools  
Southern Association of Graduate Schools  
Texas Association of Colleges for Teacher Education

# **Academic Information**

## **ADMISSION AND REGISTRATION INFORMATION**

**Admission Requirements**

**Student Load**

**Course Changes, Drops and Withdrawals**

**Grading System**

**Academic Standards**

**General Information**

**Office of Veteran Affairs**

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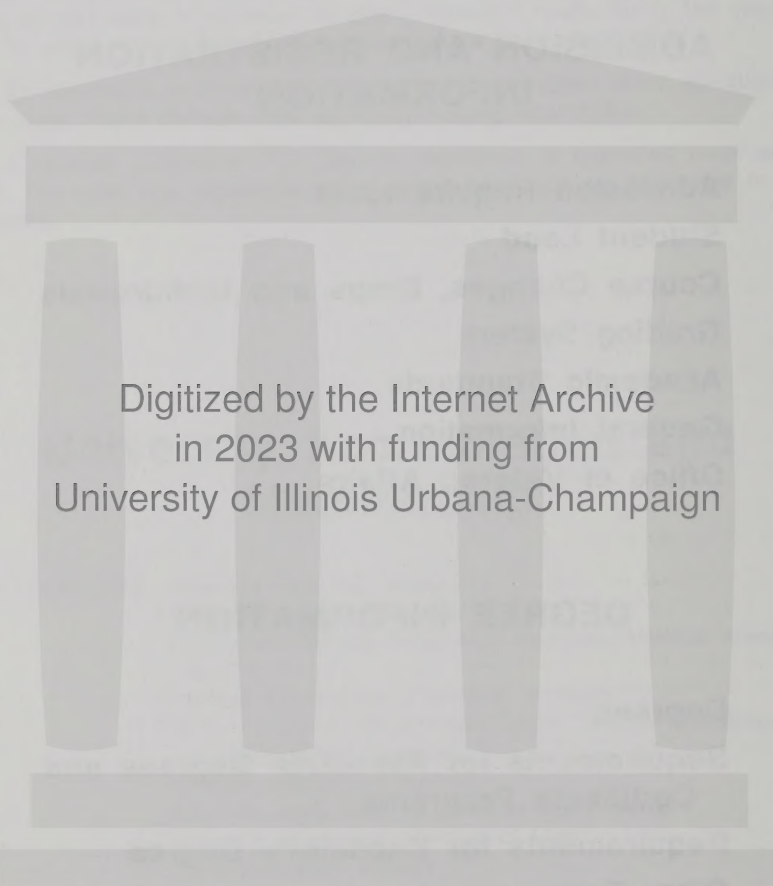
**Degrees**

**Requirements for Associate Degrees and  
Certificate Programs**

**Requirements for Bachelor's Degree**

**Other Degrees**

**Professional Curricula**



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# Academic Information

THOMAS A. BOND  
*Vice President for Academic Affairs*  
 114 Hardin Administration

## ADMISSION AND REGISTRATION INFORMATION

BETTY J. BULLOCK, *Registrar*  
 101 Hardin Administration-South

### ADMISSION REQUIREMENTS FOR UNDERGRADUATES

**Admission by Graduation from an Accredited High School.** A graduate of an accredited high school is eligible for admission without regard to units taken in high school providing the applicant has graduated in the upper 75% (first, second, or third quarter) of his class or presents a standard composite score of 18 or higher on the American College Test (ACT) or a combined score of 800 or higher on the Scholastic Aptitude Test (SAT). The beginning freshman under the age of 21 is required to have either ACT or SAT scores on file prior to registration, regardless of rank in class. A graduate of an unaccredited high school will be reviewed on an individual basis by the Director of Admissions.

**Provisional Admission.** An applicant who fails to meet either the rank in class or examination score requirements may be granted provisional admission. After attempting a total of 12 semester hours of freshman-level courses excluding H,PE activity courses, a provisional student must have a minimum of cumulative grade point average of 1.5 in order to be eligible to reenroll. A provisional student who fails to make the minimum 1.5 GPA is not eligible to reenter Midwestern State University until regular admission requirements are met.

**Beginning Freshmen 21 Years of Age or Older.** Any applicant 21 years of age or older may be admitted on the basis of graduation from an accredited high school (without regard to units earned or rank in class) or admission by examination. An entrance examination (ACT/SAT) is not required for applicants in this category.

**Admission by Examination.** A non high school graduate who is at least 18 years of age and who has not enrolled in high school for one calendar year may qualify for admission by examination with a standard composite score of 18 on the ACT, a combined score of 800 on the SAT, or an acceptable score on the General Educational Development Test (GED).

Applicants under the age of 21 are required to have a minimum average score of 50 on the GED in order to qualify for regular admission status. An applicant who fails to make an average of 50 but meets the State of Texas standards (minimum average score of 45 or no individual score

below 40) may be granted provisional admission (see provisional admission requirements detailed above.) In addition, either the ACT or SAT is required of all beginning freshmen under the age of 21.

Applicants 21 years of age and older are required to meet the State of Texas standards for passing the GED (see above) in order to qualify for admission.

**Admission to the Secretarial Administration Certificate Programs.**

Individuals 18 years of age and over may be admitted to the Secretarial Administration Certificate programs by filing an application for admission indicating the certificate as the major educational objective and a certificate program declaration form. Enrollment will be restricted to the courses required for the certificate. See page 108 for details of the curriculum.

Applicants who meet university admission requirements for beginning freshmen or transfer students are encouraged to apply for regular university admission status.

**Admission by Transfer.** The applicant for admission by transfer must be eligible to reenroll in all colleges attended and must meet the minimum academic standards required of students at MSU. Before a transfer student may register, he must submit official transcripts of all college work. In no case is the student's registration complete until these official transcripts are on file. The scholastic record of each student is analyzed on the basis of minimum scholastic standards in effect at Midwestern State University. (See Table of Academic Standards which appears in this section.) The student who has less than 24 semester hours accepted in transfer by Midwestern State University must also meet the requirements for freshman admission.

Grades of D will be accepted in transfer from accredited colleges. If the student does not present an over-all C average on the courses accepted in the transfer, he must make up the grade point deficiency on work attempted at Midwestern State University.

A maximum of 12 semester hours of courses with grades of P or "pass" will be accepted toward the bachelor's degree. (See the description of the MSU Pass-Fail Grading System for additional information.)

To qualify for a degree from Midwestern State University a student must have C (2.0) major, minor, and cumulative grade point averages on all work attempted at MSU as well as on all work counted toward the major, minor, and cumulative degree requirements, i.e., C average on MSU work attempted and transfer work accepted.

No more than 66 semester hours, including physical education, may be transferred from a junior college to Midwestern State University. A student who has begun residence work at MSU and who has earned 66 semester hours may, with the **prior written approval** of the Vice President for Academic Affairs, transfer a maximum of six additional semester hours from an approved junior college. Otherwise, courses completed at a junior college after a student has earned 66 semester hours will not be accepted in transfer.

**Admission as a Transient Summer Student.** An undergraduate student in good standing at another college or university who wishes to attend Midwestern State University only during the summer terms may be considered for admission as a Transient Summer Student. The student must complete a special declaration that he believes himself to be in good academic standing

at his home institution. Admission to transient status is not to be construed as admission to a degree program nor is it to imply admission to regular fall and spring semesters. A student on transient status who wishes to remain at MSU for the regular semesters must apply separately for regular undergraduate admission as a transfer student and his eligibility will be determined upon the basis of his transferred work. Midwestern State University grades earned as a summer transient student may not be used as a basis for fall or spring admission if the student is ineligible on the basis of his transferred grades.

**Advised Admission.** All students admitted for their first semester of college who have a standard composite score below 18 on the American College Test or a combined score below 800 on the Scholastic Aptitude Test and who qualify for admission on the basis of high school rank in class are enrolled on Advised Admission. It is recommended that Advised Admission students be limited to four courses during a long semester. In addition to these four courses, the student may also take a physical education activity or military science course.

Enrollment on Advised Admission does not constitute any type of probationary status. The purpose of the program is to assist the student with potential academic problems as indicated by the entrance examination scores. If a student's grades are satisfactory at the end of the first semester, he is no longer considered to be on Advised Admission and may schedule as many courses as current school policy permits.

**Foreign Students.** Midwestern State University is authorized to accept foreign students on student visas who meet entrance requirements as outlined for other students provided that the student also submits (1) certification of adequacy in the English language as established by the Test of English as a Foreign Language, administered by Educational Testing Service, Princeton, New Jersey, and (2) a \$600 advance deposit for his first semester expenses and certification of adequate financial resources for subsequent semesters.

**Credit for Military Service.** Students who have previously served in or are now on active duty in the armed forces may receive academic credit for their military educational experience up to a maximum of 12 semester hours toward a bachelor's degree. No credit is allowed toward graduate degrees.

For active service under honorable conditions for a period of at least six months and less than one year, the university will grant two semester hours of physical education activity credit; for one year or more of active service, four semester hours of physical education activity credit. **Note:** this credit will not be allowed if all required activity courses have been completed in residence or if the student is majoring in health and physical education.

Credits will be allowed for successful completion of technical or specialized schools attended while on active duty to the extent that the material is applicable toward degree requirements at Midwestern State University. The Office of the Registrar personnel are guided by the recommendations that are set out in the American Council of Education publication, "A Guide to the Evaluation of Educational Experiences in the Armed Services."



Credit is awarded after the student has earned 12 semester hours in residence at Midwestern State University. Credit is posted in the following manner to the permanent record card: MILITARY EDUCATIONAL EXPERIENCES . . . X. Individual schools or credits are not listed.

Students who have been discharged must submit a copy of their DD 214 or other document to the Office of the Registrar and request that an evaluation be made. Students currently on active duty should process a DD 295 through their appropriate installation education office and have it forwarded to the Office of the Registrar.

Credit will be allowed for college courses completed through the United States Armed Forces Institute (USAFI) by correspondence study only, subject to the usual rules involving credit by correspondence. USAFI credit is not considered as a part of the 12 semester hour maximum listed above.

**How to Apply for Undergraduate Admission.** Undergraduate students should complete the following steps at least six weeks prior to the semester for which they seek admission, but no later than the application deadline (see University Academic Calendar):

1. **Application for Undergraduate Admission** must be filed with the Office of the Registrar by the application deadline indicated in the official University Academic Calendar. Forms may be obtained from the Office of the Registrar.
2. **Physical Examination form** is completed by the student and his physician and returned to the University Health Service. **Each Student entering Midwestern State University for the first time is required to have a physical examination at the time of initial enrollment regardless of course load or classification.** This required physical examination report, completed by a legally qualified physician, must be on file with the University Health Service **prior** to the student receiving a registration packet. Summer transient students are exempt while maintaining such "special" status, but not upon entering for a long semester. For more detailed information, see the subsection on Health Services under Student Affairs Information.
3. **Official Transcripts** must be filed from all institutions in which the student has previously enrolled (high school, and each college or university). Transcripts must be mailed directly from the institution attended to the Office of the Registrar, Midwestern State University. Hand-carried transcripts are **not** official under any circumstances and will not be accepted.
4. **American College Test (ACT) or Scholastic Aptitude Test (SAT)** scores are required of all beginning freshmen under the age of 21. These tests are administered throughout the United States and in many foreign countries in October, November, February, April and June. It is recommended that applicants take the examination during the fall semester of their senior year or, at least, four months prior to enrollment at MSU. If it is impossible for the applicant to take the test during the national program, Midwestern State University does administer a residual ACT test prior to each semester. The student should

contact ACT or SAT immediately if he has already taken the test but did not have his scores sent to MSU. High school officials can provide further information also.

**Admission Permit.** Each new student must have an Admission Permit from the Office of the Registrar at the time of registration. This permit will be forwarded to the student when the Application for Undergraduate Admission, Residence Questionnaire, entrance examination scores, and all official transcripts have been received and evaluated.

**Temporary Admission.** If it is impossible for a student to obtain his transcript prior to registration, he may be permitted to enroll tentatively, providing he files an Application for Admission and signs a Temporary Admission Permit. The student also must certify that he will have an official transcript of all high school and college work attempted sent to the Office of the Registrar at Midwestern State University. If the transcripts are not received within **two weeks** from the first day of classes, or if the student does not meet the admission requirements when the credentials arrive and are evaluated, he will be automatically withdrawn from the university. This action will be posted to the student's permanent academic record as "enforced withdrawal." Tuition and fees will be refunded in accordance with the "Schedule of Refunds" effective on the date of withdrawal as outlined elsewhere in this catalog. A student admitted on a Temporary Registration Permit is responsible for determining his admissibility according to MSU admission requirements and course prerequisites and for providing official credentials within the two-week period.

**Falsification of Records.** Students who knowingly falsify or are a party to the falsifying of any official university record (including such records as Transcripts and Application for Admission, Student Personnel Forms, etc.) will be subject to disciplinary action which may include suspension from the university.

## INFORMATION ON EVENING, SUMMER AND CORRESPONDENCE PROGRAMS

### THE EVENING PROGRAM

Midwestern State University offers a comprehensive academic evening program for fully-employed persons and others who wish to further their college training. Credits earned in academic evening classes may be applied toward undergraduate and graduate degrees without restriction. Students must meet the requirements for admission to the university. The academic standards are also the same as for the day students.

### THE SUMMER SESSION

Midwestern State University conducts a summer session consisting of two terms. A schedule of undergraduate and graduate classes is offered. Regular faculty members and visiting instructors teach during the summer terms. The facilities of the university are available to summer school students.

The dates for the summer terms are listed in the University Academic Calendar.

The summer program is an integral part of the academic program. Admission and academic standards are the same as for the long semesters.

### **CORRESPONDENCE WORK**

Midwestern State University does not offer correspondence credit. However, a limited amount (not to exceed 18 semester hours) of correspondence work from an accredited institution may be applied toward the requirements for the bachelor's degree.

A student enrolled in residence must secure the written permission of the dean of his school prior to enrolling for a correspondence course. The student may make arrangements to take his final examination at Midwestern. The examination is administered by the Director of Testing.

Credit by correspondence for a course failed in residence will not be accepted toward graduation. No graduate credit can be earned through correspondence.

Seniors must make sure transcripts of correspondence work necessary for graduation arrive in the Office of the Registrar at least one week prior to graduation.

### **STUDENT LOAD**

1. The permissible load for an undergraduate student for the long semester shall be 17 semester hours plus required physical education activity and/or military science course.

The maximum load for an undergraduate student who has 30 or more semester hours and a cumulative grade point average of 3.0 or above shall be 19 semester hours plus the required physical education activity and/or military science course.

All loads in excess of 17 semester hours plus the required physical education activity and/or military science course must be approved by the dean of the school in which the student is majoring.

2. The permissible full-time load for the summer session shall be seven semester hours for each term. All loads in excess of seven semester hours must be approved by the dean of the school in which the student is majoring.

3. A transfer student who has 30 or more semester hours with a cumulative grade point average of 3.0 (B) or above shall not be allowed to carry more than the maximum full-time load until he has completed a minimum of 12 semester hours at Midwestern State University and retained his cumulative grade point average of 3.0 or above.

### **COURSE CHANGES, DROPS AND WITHDRAWALS**

**Change of Schedule.** A student's schedule may be changed on the day designated (see Academic Calendar), subject to the approval of the student's adviser and approval of the departments concerned.

A fee of \$3.00 is charged for each schedule change. Change of Schedule forms may be obtained at the registration area. (See Academic Calendar)



**Dropping a Course.** (Fee \$3.00) Drop forms may be obtained in the Office of the Registrar. By presenting an official drop form completed with signatures of both the course instructor and faculty adviser to the cashier in the Business Office, a student may drop a course during the first four weeks of a long semester or through the last day of the second week of a summer term with a grade of W (see Academic Calendar).

By presenting an official drop form completed with signatures of both the course instructor and faculty adviser to the cashier in the Business Office a student may drop a course from the first day of the fifth week until ten class days before final examinations of a long semester or the first day of the third week until five class days before final examinations of a summer term. Classes dropped during these periods are subject to a grade of WP or WF, depending upon the student's grade as of the official drop date. The WF is computed in the grade point average.

After the above deadlines, a grade of F will be recorded for any class drop.

**Official Drop Date. No Drop is official until the fee is paid and the form is surrendered to the Business Office.** The date of submission to the Business Office is the official drop date for grade determination (W, WP, WF, F). An F will result if a student ceases to attend class without completely processing a course drop or withdrawal from the university.

An instructor may drop a student any time during the semester for excessive absences and/or for consistently failing to meet class assignments. An instructor's drop of a student from his class takes precedence over the student-initiated course drop of a later date. The grade of F is automatically assigned for all instructor drops.

**Withdrawals.** Any student who does not intend to continue in Midwestern State University should officially withdraw rather than simply stop attending since this latter action results in unnecessary failing grades.

**Voluntary Withdrawal from the University.** A student who desires to withdraw from the university will report to the Office of Student Affairs. Following an exit interview the student will be issued a withdrawal form. He will secure clearance from the various offices noted on the form and will deposit it in the Business Office.

**Enforced Withdrawal from the University.** A student who fails to comply with the stated regulations concerning temporary admission may be required to withdraw after university review. This action will be posted to the permanent record and a statement retained in the academic file.

## GRADING SYSTEM AND GRADE REPORTS

All grades are reported by letter without modification of plus or minus. Letter grades have the following significance:

|                                   | Grade points per<br>semester hour |
|-----------------------------------|-----------------------------------|
| A indicates <b>excellent</b> work | 4                                 |
| B indicates <b>good</b> work      | 3                                 |

|   |   |
|---|---|
| C indicates <b>fair</b> work                                | 2 |
| D indicates <b>passing</b> work                             | 1 |
| *P indicates <b>passing</b> work taken for pass-fail credit |   |
| F indicates <b>failing</b> work                             | 0 |

F is given for a course dropped during the last ten class days before final examinations of a long semester and five days of a summer term.

F is given in a course any time during the semester if an instructor drops the student.

\*F indicates **failing** work taken for pass-fail credit

I indicates **incomplete** work. A student is expected to complete a course of study during a semester. In an emergency an instructor may assign a grade of I.

An I in a course numbered 1000-4000 must be converted into a letter grade within 30 days after the beginning of the next semester or summer session or the I will become an F.

An I in a course numbered 5000-6000 must be converted into a letter grade within 90 days after the beginning of the next semester or summer session or the I will become an F.

Any exception to this regulation must be approved by the dean of the school in which the student is majoring.

**Extension of time to remove an incomplete.** If it is impossible for an incomplete to be removed within the time period allowed due to extenuating circumstances, "Extension of Time" forms must be completed by the student and approved by the instructor.

**Procedures for Removing I.** To remove an incomplete the student must pay the \$1.00 per course fee in the Business Office and take the receipt to the instructor. The instructor will enter the grade, course title, and number on the receipt, authenticate it with his signature, and return it to the Office of the Registrar.

X indicates **incomplete** thesis

W indicates that the student has withdrawn or dropped officially from a course

1st through 4th week of a semester.

1st through 2nd week of summer term.

(See semester schedule for exact dates)

W is not computed in the grade point average.

WP indicates that the student has withdrawn or dropped officially from a course while making a passing grade.

5th week until ten class days before final examinations of a semester.

3rd week until five class days before final examinations of a summer term.

(See semester schedule for exact dates)

WP is not computed in the grade point average.

WF indicates that the student has withdrawn or dropped officially from a course while making a failing grade.

5th week until ten class days before final examinations of a semester.

3rd week until five class days before final examinations of a summer term.

(See semester schedule for exact dates)

WF is computed in the grade point average.

### **Pass-Fail Grading System**

**PURPOSE:** To encourage students to broaden their selection of courses by minimizing grade competition.

**ELIGIBILITY:** Limited to students who have a minimum of 30 semester hours of credit earned at or accepted by Midwestern State University.

**Conditions** (Please study carefully):

1. A maximum of 12 semester hours of credit may be taken on the pass-fail grading plan and counted toward the bachelor's degree.
2. Not more than four semester hours of credit may be taken on the pass-fail grading system in any one academic discipline, and only one course per semester may be taken under the pass-fail option.
3. Pass-fail courses will not satisfy major or minor requirements. Only courses in PE activities, various applied courses including music, and free electives may be taken pass-fail.
4. A course cannot be taken for pass-fail credit if the student has previously enrolled for the course.
5. Declaration for enrollment for pass-fail credit must be made at the time of enrollment (special form). Departmental approval will be required.
6. Instructors will not be informed of the status of their students insofar as the pass-fail system is concerned. They will grade pass-fail students just as they grade other students. If the student receives a grade of D or better, the Registrar will indicate on the transcript that the course has been passed. If the grade is F, the Registrar will indicate that the course has not been passed.
7. The grade will be posted as P (pass) or F (fail) and can never be changed to any other grade. Pass-fail grades will not be calculated in the grade point average.
8. The student taking a pass-fail course must earn the minimum grade points required for his classification **without** inclusion of the pass-fail course. The semester hours earned with the "Pass" will count toward his minimum degree requirements.
9. The student will be eligible for the University Honor Roll with 15 hours (including a "pass"), with a minimum grade point average of 3.50 with no grade below C. Dean's Honor Roll — fifteen hours (including a "pass") with no grade below A.
10. Transfer students will have the same pass-fail privileges and restrictions as other students, but, in addition, they must successfully complete a minimum of 30 semester hours at Midwestern State University under the regular grading system in order to be eligible for graduation.

**Caution:** COURSES TAKEN UNDER the PASS-FAIL OPTION ARE NOT ALWAYS ACCEPTED IN TRANSFER TO OTHER INSTITUTIONS.



**Repetition of Courses.** Courses in which a grade of A, B or C has been earned may not be repeated for credit. A student may repeat at Midwestern State University any course in which he has earned a grade of D or F. Upon repetition at MSU his official grade is the last one made and only the last registration is computed in the grade point average although all enrollments will be shown on the student's permanent record. Repetition of a course with an earned grade of D at MSU taken at another institution will not be accepted in transfer. The D credit at Midwestern State University stands and will be calculated in the MSU GPA and counted toward graduation. Repetition of a course with an earned grade of F at MSU taken in residence at another institution may be accepted in transfer, but the F will continue to be shown on the MSU permanent record and calculated in the MSU GPA. A student may not repeat a course by correspondence which has been failed in residence.

**Grade Reports.** Semester grades are mailed from the Office of the Registrar directly to all students as soon as possible after the close of each semester and each summer term.

**Change in Address.** The student must report any changes in his marital status, name, residence, or address to the Office of the Registrar, Office of Student Affairs, and the Business Office.

## ACADEMIC STANDARDS

(Undergraduate)

**Minimum Academic Standards.** It is desirable that a student maintain at least a C average throughout his college career, since that standard is required for graduation. Academic standings, based upon a student's Midwestern State University cumulative grade point average (GPA) and all course work attempted at Midwestern State University and elsewhere, are shown in the table below. Grade point averages are computed based on: A=4, B=3, C=2, D=1, and F=0. Grade point averages will be computed at the end of each semester and at the end of the summer session (two summer terms).

**TABLE OF ACADEMIC STANDARDS**

| TOTAL HOURS<br>ATTEMPTED<br>MSU AND<br>ELSEWHERE | ACADEMIC*<br>SUSPENSION<br>IF MSU CUM. GPA<br>IS LESS THAN | SCHOLASTIC<br>PROBATION<br>IF MSU CUM. GPA IS<br>AT LEAST but LESS THAN | MSU CUM.<br>GPA FOR<br>GOOD<br>STANDING |      |
|--|--|---|---|------|
| (1)  | (2)  | (3)   | (4)                                     | (5)  |
| Below 16 hrs.                                    | 0  | 0   | 1.50                                    | 1.50 |
| 16-17  | .70  | .70   | 1.50                                    | 1.50 |
| 18-19  | .71  | .71   | 1.50                                    | 1.50 |
| 20-21  | .72  | .72   | 1.50                                    | 1.50 |
| 22-23  | .73  | .73   | 1.50                                    | 1.50 |
| 24   | .74  | .74   | 1.50                                    | 1.50 |
| 25   | .75  | .75   | 1.50                                    | 1.50 |
| 26   | .76  | .76   | 1.50                                    | 1.50 |
| 27   | .77  | .77   | 1.50                                    | 1.50 |

## ADMISSION AND REGISTRATION

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| TOTAL HOURS<br>ATTEMPTED<br>MSU AND<br>ELSEWHERE | ACADEMIC*<br>SUSPENSION<br>IF MSU CUM. GPA<br>IS LESS THAN | SCHOLASTIC<br>PROBATION<br>IF MSU CUM. GPA IS<br>AT LEAST but LESS THAN | MSU CUM.<br>GPA FOR<br>GOOD<br>STANDING |      |
|--|--|---|---|------|
| (1)  | (2)  | (3)   | (4)                                     | (5)  |
| 28   | .78  | .78   | 1.50                                    | 1.50 |
| 29   | .79  | .79   | 1.50                                    | 1.50 |
| 30   | .80  | .80   | 1.50                                    | 1.50 |
| 31   | .82  | .82   | 1.50                                    | 1.50 |
| 32   | .84  | .84   | 1.50                                    | 1.50 |
| 33   | .86  | .86   | 1.50                                    | 1.50 |
| 34   | .88  | .88   | 1.50                                    | 1.50 |
| 35   | .90  | .90   | 1.50                                    | 1.50 |
| 36   | .92  | .92   | 1.52                                    | 1.52 |
| 37   | .94  | .94   | 1.54                                    | 1.54 |
| 38   | .96  | .96   | 1.56                                    | 1.56 |
| 39   | .98  | .98   | 1.58                                    | 1.58 |
| 40   | 1.00   | 1.00  | 1.60                                    | 1.60 |
| 41   | 1.02   | 1.02  | 1.62                                    | 1.62 |
| 42   | 1.04   | 1.04  | 1.64                                    | 1.64 |
| 43   | 1.06   | 1.06  | 1.66                                    | 1.66 |
| 44   | 1.08   | 1.08  | 1.68                                    | 1.68 |
| 45   | 1.10   | 1.10  | 1.70                                    | 1.70 |
| 46   | 1.12   | 1.12  | 1.72                                    | 1.72 |
| 47   | 1.14   | 1.14  | 1.74                                    | 1.74 |
| 48   | 1.16   | 1.16  | 1.76                                    | 1.76 |
| 49   | 1.18   | 1.18  | 1.78                                    | 1.78 |
| 50   | 1.20   | 1.20  | 1.80                                    | 1.80 |
| 51   | 1.22   | 1.22  | 1.82                                    | 1.82 |
| 52   | 1.24   | 1.24  | 1.84                                    | 1.84 |
| 53   | 1.26   | 1.26  | 1.86                                    | 1.86 |
| 54   | 1.28   | 1.28  | 1.88                                    | 1.88 |
| 55   | 1.30   | 1.30  | 1.90                                    | 1.90 |
| 56   | 1.32   | 1.32  | 1.92                                    | 1.92 |
| 57   | 1.34   | 1.34  | 1.94                                    | 1.94 |
| 58   | 1.36   | 1.36  | 1.96                                    | 1.96 |
| 59   | 1.38   | 1.38  | 1.98                                    | 1.98 |
| 60   | 1.40   | 1.40  | 2.00                                    | 2.00 |
| 61   | 1.42   | 1.42  | 2.00                                    | 2.00 |
| 62   | 1.44   | 1.44  | 2.00                                    | 2.00 |
| 63   | 1.46   | 1.46  | 2.00                                    | 2.00 |
| 64   | 1.48   | 1.48  | 2.00                                    | 2.00 |
| 65   | 1.50   | 1.50  | 2.00                                    | 2.00 |
| 66   | 1.52   | 1.52  | 2.00                                    | 2.00 |
| 67   | 1.54   | 1.54  | 2.00                                    | 2.00 |
| 68   | 1.56   | 1.56  | 2.00                                    | 2.00 |
| 69   | 1.58   | 1.58  | 2.00                                    | 2.00 |
| 70   | 1.60   | 1.60  | 2.00                                    | 2.00 |
| 71   | 1.62   | 1.62  | 2.00                                    | 2.00 |
| 72   | 1.64   | 1.64  | 2.00                                    | 2.00 |
| 73   | 1.66   | 1.66  | 2.00                                    | 2.00 |

| TOTAL HOURS<br>ATTEMPTED<br>MSU AND<br>ELSEWHERE | ACADEMIC*<br>SUSPENSION<br>IF MSU CUM. GPA<br>IS LESS THAN | SCHOLASTIC<br>PROBATION<br>IF MSU CUM. GPA IS<br>AT LEAST but LESS THAN | MSU CUM.<br>GPA FOR<br>GOOD<br>STANDING |      |
|--|--|---|---|------|
| (1)  | (2)  | (3)   | (4)                                     | (5)  |
| 74   | 1.68   | 1.68  | 2.00                                    | 2.00 |
| 75   | 1.70   | 1.70  | 2.00                                    | 2.00 |
| 76   | 1.72   | 1.72  | 2.00                                    | 2.00 |
| 77   | 1.74   | 1.74  | 2.00                                    | 2.00 |
| 78   | 1.76   | 1.76  | 2.00                                    | 2.00 |
| 79   | 1.78   | 1.78  | 2.00                                    | 2.00 |
| 80   | 1.80   | 1.80  | 2.00                                    | 2.00 |
| 81   | 1.82   | 1.82  | 2.00                                    | 2.00 |
| 82   | 1.84   | 1.84  | 2.00                                    | 2.00 |
| 83-110   | 1.86   | 1.86  | 2.00                                    | 2.00 |
| 111 or more                                      | 2.00   | 2.00  | 2.00                                    | 2.00 |

\*EXCEPTION: If a student's Midwestern State University grade point average falls below the average listed in column 2, but his current semester grade point average is at least 2.00 he shall be continued on probation.

## PROBATION, SUSPENSION AND DISMISSAL

Suspension and dismissal standards set forth in the Table of Academic Standards will be applied only after a transfer student has attempted an accumulative total of 12 semester hours at Midwestern State University.

### 1. Scholastic (Academic) Probation

If at the end of any long semester or summer session (2 terms) a student's Midwestern State University cumulative grade point average for the total number of hours attempted falls within the range shown in the third and fourth columns of the Table of Academic Standards, he will be placed on scholastic probation for the following semester or summer session. So long as his cumulative grade point average falls within the range shown in the third and fourth columns of the Table of Academic Standards, he will be continued on scholastic probation. He may be required to reduce his course load and will be required to yield any work grants or annual scholarships held. Students on academic probation are not eligible to be Senators in the Student Senate and are not eligible to hold office in a student organization. Students on probations are also ineligible to obtain loans from the university.

### 2. Removal from Scholastic Probation

A student who is on scholastic probation will be removed from such probation at the conclusion of either semester in the long session or at the end of a summer session (2 terms) when he has achieved the required cumulative grade point average shown in the fifth column of the Table of Academic Standards. Attendance at another institution will not remove the student from scholastic probation at Midwestern State University.

### 3. Suspension for Failure to Achieve Minimum Academic Standards

If at the end of any long semester or summer session (2 terms) a student's Midwestern State University cumulative grade point average for the



total number of hours attempted falls below the minimum shown in the second column of the Table of Academic Standards, and his current semester grade point average is less than 2.00, he will be suspended from the university according to regulations in paragraph 4 below. Suspension or dismissal will be posted to the student's academic record and will remain as a permanent entry. A student who is dropped for academic deficiency may not reenroll until the specified suspension period has passed. Should the student be admitted to another institution while on suspension, he must meet the Midwestern State University minimum academic requirements or be subject to further academic penalty if he applies for readmission (see Admission by Transfer). Work completed in another institution will not decrease the suspension period nor remove the student from scholastic probation at Midwestern State University.

#### **4. Limits on Reentrance**

##### **A. First Suspension**

- (1) A student suspended at the close of the fall semester is eligible for readmission the following fall.
- (2) A student suspended at the close of the spring semester is eligible for readmission the following spring.
- (3) A student suspended at the close of the summer session is eligible for readmission the following spring.

##### **B. Second Suspension—one calendar year.**

##### **C. Academic Dismissal—readmission following Academic Dismissal approved by the Admissions Committee. Normally, a minimum of two calendar years must pass before the committee will review a petition.**

#### **5. Readmission after a Suspension**

A student whose suspension period has passed and who meets all requirements for readmission will be readmitted on scholastic probation. If, at the end of the semester or summer session (2 terms) following his readmission, the student's academic performance meets the requirements for Removal from Scholastic Probation, he will be removed from probation. But, if he does not meet the minimum academic standards (second column of the Table of Academic Standards), and if he does not have a current semester average of at least 2.00, he will be suspended again. If his grade average continues to fall within the range shown in the third and fourth columns of the Table of Academic Standards, he will be continued on probation.

**Petitions for Reinstatement.** Written petitions for reinstatement will be submitted to the Director of Admissions for referral to the Admissions Committee.

## **GENERAL INFORMATION**

The following list of commonly used terms and policies is presented to enable the student to become familiar with the vocabulary of the campus. He should learn these terms and the rules and regulations accompanying them early in his college career.

**Adviser.** The member of the faculty who guides the student in the selection of his courses and in solving problems. Until the student selects a major field of study he will be assigned to an undeclared major adviser. After the major is selected the chairman of the department in which the student is majoring will appoint an adviser.

The adviser will prepare the student degree plan and will approve the student's schedule at each registration. The student should feel free to consult his adviser in regard to his course of study, other interests, and problems.

**Audit of Courses.** With the written permission of the instructor of the course concerned, an individual may sit in a class as an auditor without receiving college credit. The auditor's name will not be entered on the class roll, and the instructor will not accept any papers, test, or examinations from him. Attendance as an auditor may not be made the basis of a claim for credit in a course. Laboratory and skills courses are not available to the auditor. For cost determination, see Audit Fee in Financial Information section.

**Class Attendance.** Students are expected to attend all meetings of the classes in which they are enrolled. If a justifiable or authorized absence should occur, it is the responsibility of the student to arrange with his instructor the make-up of all work missed. Authorized absences for university related business must be arranged through the Vice President for Academic Affairs. A student with excessive absences and/or indifferent attitude toward his work may be dropped from a course by the instructor with an automatic grade of F.

**Classification of Students.** Students are classified as freshman, sophomore, junior, senior, graduate degree, and graduate non-degree.

A freshman has fulfilled all admission requirements.

A sophomore has a minimum of 30 semester hours of credit.

A junior has a minimum of 60 semester hours of credit.

A senior has a minimum of 90 semester hours of credit.

A graduate degree student is one who has been officially admitted to graduate study.

A graduate non-degree student is one who has a bachelor's or higher degree and who is not seeking a master's degree at Midwestern State University. He may be taking courses for professional development, teacher certification, personal interest, or to transfer graduate credit to another institution.

**Course Numbers.** Courses are numbered according to the year in which it is intended they be taken.

1000 courses—first year, for freshmen

2000 courses—second year, for sophomores

3000 courses—third year, for juniors and in a limited amount for graduate students

4000 courses—fourth year, for seniors and in a limited amount for graduate students

5000 courses—fifth year, for graduate students

6000 courses—for graduate students, primarily seminar and thesis courses

The second and third digits are departmental identification numbers.

The last digit of a course number indicates the semester hour value of the course.

A number in parenthesis immediately following a course title indicates a former catalog number for the same course.

The three numbers to the right margin of each course title indicate (1) the credit value of the course in semester hours, (2) the number of lecture hours each week, and (3) the number of laboratory hours each week. For example, 4 (3-2) indicates a four-semester-hour course which meets for three hours lecture and two hours of laboratory each week for one semester.

**Lower Division Courses.** A term frequently used to indicate courses with 1000 and 2000 numbers. The student should enroll continuously during his freshman and sophomore years in required lower division courses until all are completed.

**Advanced or Upper Division Courses.** A term used to designate 3000 and 4000 numbered courses.

**Degree Plan.** The degree plan is prepared by the student's adviser and approved by the chairmen of his major and minor departments and by the dean of his school. The student should obtain an unofficial copy of his transcript from the Office of the Registrar prior to meeting with his adviser to discuss the degree plan.

The degree plan should be made out not later than the first semester of the junior year. The student should retain a copy for his guidance. Copies will also be filed with the Registrar, the student's adviser, the chairmen of the major and the minor departments, and the dean of his school.

**Emergency Absence Report.** The instructor will report promptly three consecutive absences to the Office of Student Affairs.

**Grade Point Average.** This figure abbreviated GPA, is computed by dividing the total grade points earned at Midwestern State University by the total number of semester hours attempted at Midwestern State University. A Midwestern State University grade point average of 2.0 is required for graduation. (See section on Grading System and Grade Reports). Transferred grades are never lowered; they are filed just as they are received. For degree purposes, grades earned at other institutions will not be averaged with the work done at this university; however, transfer students admitted with a grade point deficiency must remove the deficiency with grades earned at MSU.

**Honor Rolls.** A student completing a semester schedule of at least 15 hours with no grade lower than A will be included on the Dean's Honor Roll. These 15 hours may include one grade of \*P (see Pass-Fail Grading System).

A student who completes a semester schedule of at least 15 semester hours with a minimum grade-point average of 3.5 and no grade lower than C will be included on the University Honor Roll. These 15 hours may include one grade of \*P (see Pass-Fail Grading System).



**Prerequisite.** A condition (either specific course or classification) which must be satisfied prior to enrolling for the course in question. Prerequisites are listed below the course title in the catalog course descriptions.

**Problem Course.** An individual research course.

The requirements for enrollment in a problem course are as follows:

1. The student must have at least a B average in the area of the proposed problems course or directed readings course, with an overall average of not less than 2.5.
2. Approval must be obtained from both the department involved and the professor who will direct the course.
3. Any student below senior standing applying for a problems course will be referred to the dean of the school concerned for final approval. Any "borderline" applicant or applicant of questionable eligibility will be referred to the Vice President for Academic Affairs for final approval.
4. A maximum of six semester hours of undergraduate credit may be earned in problem courses, conference courses, or other nonscheduled class type courses in any one subject matter area.

**Semester Hour.** The unit of credit given for meeting one hour per week in a course for a semester. A course meeting three hours per week grants three semester hours credit. The total number of semester hours required for graduation is 124.

**Transcript Service. Official copies** of the Northwestern State University transcript may be obtained from the Office of the Registrar. In compliance with PL 93-380, Family Education Rights and Privacy Act of 1974, transcripts must be requested in writing and must bear the signature of the student.

**Unofficial copies** of the Northwestern State University transcript for advisement and degree plan preparation may be obtained upon written request by the student. One copy per year will be provided free of charge; additional copies may be obtained at the regular fee of \$1.00 per copy.

## OFFICE OF VETERAN AFFAIRS

The purpose of the Office of Veteran Affairs is to bring the maximum number of veterans into a systematic program of higher education most suited to their educational and career aspirations.

Student veterans are assisted in their application and enrollment procedures at the university by the Office of Veteran Affairs, which is a part of the Office of the Registrar. A Veterans Administration employee is on hand to assist in handling V.A. applications for educational benefits under the various public laws and to provide information about other veteran benefits.

Student veterans are assisted by assessment of their needs, problems and interests. A referral service involving assistance in areas such as housing, employment, health, recreation, vocational and technical training and financial assistance is provided.

A special tutorial program is available to the veteran student if needed.

Professional assistance is also provided to the veteran student in the area of personal, family, and career problems.

The office also provides the same types of services for students under Vocational Rehabilitation and for children, wives or widows of totally and permanently disabled or deceased veterans.

See the section on Benefits for Veterans in the Financial Information part of this catalog for additional information.

## CREDIT BY EXAMINATION

A maximum of 30 semester hours of credit earned by examination may be applied to the bachelor's degree at Midwestern State University.

Credit by examination may be earned through departmentally administered advanced placement and proficiency examination and by satisfactory scores on the College Level Examination Program (CLEP).

**Advanced Placement Program.** Students with superior high school records in chemistry, foreign languages, mathematics or music may earn college credit in these fields by Advanced Placement Examination. Credit is earned by passing a departmentally administered examination over the course with a grade of A, B, or C. The course, grade, and grade points are posted to the permanent record and designated as Advanced Placement credit.

Students interested in obtaining information on specific advanced placement examinations should contact the appropriate department chairmen.

**Credit by Examination.** Resident students may obtain credit by examination with the approval of the department chairperson and the dean of the school in which the course being challenged is offered. Credit and grade obtained by examination are not used in determining the load or grade point average for the semester in which the examination is taken. They are used in calculating the cumulative grade point average. When an examination for credit is taken, only a grade of C or better will be recorded.

Credit by examination assumes the student has had no formal classroom instruction, either as a regularly enrolled student or as an auditor, in the course he is requesting to challenge. It is the responsibility of the department chairperson to validate the student's request. If approved, the student pays a \$15.00 testing fee to the University Business Office and presents the receipt to the department chairperson who will arrange for the test.

**College Level Examination Program (CLEP).** The College Level Examination Program (CLEP) is a national testing program administered by the Educational Testing Service of Princeton, New Jersey. Midwestern State University is a test center for this program.

For further information and to obtain CLEP test registration form, please contact:

Director of Testing  
Clark Student Center, Room 101  
Midwestern State University  
Wichita Falls, Texas 76308  
Telephone No. 692-6611, Ext. 215

## **DEGREE INFORMATION**

### **UNDERGRADUATE DEGREES**

#### **ASSOCIATE DEGREES**

##### **In the School of Sciences and Mathematics**

- Associate of Applied Science in Chemical Technology
- Associate of Applied Science in Electronics Technology
- Associate of Science in Dental Hygiene
- Associate of Science in Medical Laboratory Technology
- Associate of Science in Nursing
- Associate of Science in Radiologic Technology

#### **BACCALAUREATE DEGREES**

##### **In the School of Business Administration and Economics**

- Bachelor of Arts
  - Major offered in economics
- Bachelor of Business Administration
  - Majors offered in accounting, business administration, economics, management science, and secretarial administration
- Bachelor of Science
  - Major offered in economics

##### **In the School of Education**

- Bachelor of Science in Education
  - Certification Programs in elementary, secondary, guidance associate; all levels in art, speech and hearing therapy, music, and physical education; with endorsements available in kindergarten, language/learning disabilities and mental retardation
- Bachelor of Science in Recreation Administration

##### **In the School of Humanities and Social Sciences**

- Bachelor of Arts
  - Majors offered in art, drama, English, French, German, history, humanities, international studies, journalism, music, political science, psychology, sociology, Spanish, speech, and speech and hearing therapy
- Bachelor of Fine Arts
  - Major offered in art
- Bachelor of Music
  - Majors offered in theory, piano, voice, organ, wind, and strings
- Bachelor of Music Education
  - All level, instrumental, vocal, and strings



Bachelor of Science

Major offered in psychology

Bachelor of Science in Criminal Justice

**Note:** In addition to the above, undergraduate minors are also offered in anthropology and philosophy.

#### **In the School of Sciences and Mathematics**

Bachelor of Arts

Major offered in mathematics

Bachelor of Science

Majors offered in biology, chemistry, geology, geophysics, mathematics, and physics

Bachelor of Science in Dental Hygiene

Bachelor of Science in Medical Technology

Bachelor of Science in Radiologic Technology

## **GRADUATE DEGREES**

### **MASTER'S DEGREES**

#### **In the School of Graduate Studies**

Master of Arts

Majors offered in English, history, political science, psychology, and speech

Master of Business Administration

Master of Education

Majors offered in elementary education, secondary education, counseling, reading education, school administration and special education

Master of Music

Master of Music Education

Master of Science

Majors offered in biology and mathematics

Master of Science in Physical Education

## **GENERAL REQUIREMENTS FOR ALL ASSOCIATE DEGREES AND CERTIFICATE PROGRAMS**

1. Satisfy all admission conditions.
2. The completion of a minimum of 15 semester hours at Midwestern State University.
3. Twelve of the last 15 semester hours required for the degree must be completed in residence at Midwestern State University in all fields except cooperative health science programs with Sheppard Air Force Base.

4. A minimum of six semester hours of the major must be completed in residence at Midwestern State University in all except the cooperative health science programs with Sheppard Air Force Base.

5. Not more than 15 semester hours in extension and correspondence may be counted toward a degree.

Credit by correspondence for a course failed in residence will not be accepted toward graduation.

6. A student must earn a minimum grade point average of 2.0 on 4.0 system on courses attempted at Midwestern State University as well as on all work counted toward the field of specialization and the degree, i.e., C average on Midwestern State University work attempted and also on transfer work accepted. See department for any special grade requirements.

7. English 1113, 1123.

8. Political Science 1333 or equivalent must be completed in a Texas institution.

9. A minimum total credit of 64 semester hours.

10. Satisfactory completion of all requirements specified for the degree by the school and department in which it is offered.

11. Formal application for the degree or certificate through the Office of the Registrar. See Academic Calendar and Admission to Degree Candidacy.

12. Payment of fees and satisfaction of all other financial obligations including "exit interviews" as required by loan programs.

13. Associate degree graduates are required to attend graduation exercises unless approved by the University President for graduation **in absentia**. Certificates are not presented at the graduation exercises.

## GENERAL REQUIREMENTS FOR ALL BACHELOR'S DEGREES

1. Satisfy all admission conditions.

2. The completion of a minimum of 30 semester hours at Midwestern State University.

3. Twenty-four hours of the last 30 semester hours required for graduation must be completed in residence at Midwestern State University with the exception of health science degrees.

4. A maximum of 30 semester hours in extension and correspondence may be counted toward a degree. Of these 30 hours no more than 18 by correspondence.

Credit by correspondence for a course failed in residence will not be accepted toward graduation.

5. A major of at least 24 semester hours of which 12 must be advanced; 12 advanced semester hours of the major must be completed in residence at Midwestern State University.

6. A minor of at least 18 semester hours of which six must be advanced. Six advanced semester hours of the minor must be completed in residence at Midwestern State University. This requirement does not apply to health sciences degrees.

7. A student must earn a minimum grade point average of 2.0 on the courses attempted at Midwestern State University. A student must also earn a minimum grade point average of 2.0 on the courses attempted at Midwestern State University in his major and a grade point average of 2.0 in courses attempted at Midwestern State University in his minor.

A student must have C (2.0) major, minor, and cumulative grade point averages on all work attempted at Midwestern State University as well as on all work counted toward the major, minor, and cumulative degree requirements, i.e., C average on Midwestern State University work attempted and transfer work accepted.

8. English 1113, 1123.

9. History 1133, 1233.

10. Political Science 1333, 1433 fulfill the legislative requirement for six hours of American and Texas government. Three hours of Texas government must be completed in a Texas institution.

11. Four courses of physical education activities. See page 00 for military science student requirements. A maximum of four physical training activity courses may be counted in 124 semester hours required for the degree. Exception—physical education majors may count seven activity courses.

12. A minimum of 39 semester hours of advanced work, junior and senior level (3000 and 4000 numbered courses).

13. A minimum total credit of 124 semester hours.

14. Satisfactory completion of all requirements specified for the degree by the school and department in which it is offered.

15. Graduation with honors will be accorded to candidates who have completed at least 60 semester hours of work at Midwestern State University with cumulative grade point averages as indicated:

**Cum laude**—Midwestern State University cumulative grade point averages of 3.25-3.49 inclusive.

**Magna cum laude**—Midwestern State University cumulative grade point averages of 3.50-3.74 inclusive.

**Summa cum laude**—Midwestern State University cumulative grade point averages of 3.75-4.00 inclusive.

This recognition is placed on both the permanent record and on the diploma.

16. Formal application for the degree through the Office of the Registrar. See Academic Calendar and Admission to Degree Candidacy below.

17. Payment of fees and satisfaction of all other financial obligations including "exit interviews" as required by loan programs.

18. Attendance of graduation exercises unless approved by the University President for graduation **in absentia**.

## REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE

At least 60 hours must be taken in liberal arts, which is defined as courses in the School of Humanities and Social Sciences, in economics, and in mathematics. Bachelor of Arts students will meet all of the general university requirements on page 28.

**Major:** See departmental listing for requirements.

The major must be taken in one of these fields: art, drama, economics, English, French, German, history, humanities, mathematics, music, political science, psychology, sociology, Spanish, speech. Twelve hours must be advanced.

**Minor:** See departmental listing for requirements.

The minor may be in any department. Six hours must be advanced.

### **General Requirements** (22 semester hours)

English 1113, 1123—6 hours

History 1133, 1233—6 hours

Political Science 1333, 1433

Satisfaction of the requirement for physical education activities or basic military science (see page 81)

### **Additional General Requirements** (27 semester hours of which 21 must be exclusive of the major and minor)

Science and mathematics (one or both)—9 hours

Sophomore literature—6 hours

One foreign language—12 hours (or the equivalent of language through the second year)

**Core Electives:** Six semester hours from at least two of the following fields. These may be included as part of the **Additional General Requirements**, but must be outside the major and minor fields.

|                     |                      |
|---------------------|----------------------|
| Anthropology        | Humanities           |
| Art                 | Journalism           |
| Astronomy           | Music                |
| Biblical literature | Philosophy           |
| Criminal Justice    | Psychology           |
| Drama               | Sociology            |
| Economics           | Speech               |
| Geography           | Western civilization |

### **Departmental**

For specific and additional courses required for your major and minor, see departmental requirements for the appropriate department.

**Additional electives** to total 124 hours.



## REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREE

Only students majoring in biology, chemistry, economics, geology, geophysics, mathematics, physics, or psychology may receive the Bachelor of Science degree.

The student should also refer to specific requirements as listed in the department in which the major is taken, to determine which options are available.

**Major:** See departmental listing for requirements.

**Minor:** See departmental listing for requirements.

**General Requirements** (22 semester hours)

English 1113, 1123

History 1133, 1233

Political Science 1333, 1433

Satisfaction of the requirement for physical education activities and/or basic military science (see page 81).

**Additional General Requirements** (21 semester hours exclusive of major and minor)

Computing Science 2003 or Electronic Data Processing 1114.

Three semester hours from art, drama, humanities, literature, music, philosophy or religion.

Three semester hours from anthropology, economics, education, geography, advanced military science, psychology, sociology, speech, statistics or technical writing.

Six semester hours each from two of the following: (12-16 semester hours)

Business administration

Engineering drawing

One foreign language

One laboratory science (six hours or more)

Mathematics exclusive of Mathematics 1033 and 1043

All B.S. degree programs must include at least two courses in each of two laboratory sciences and two courses in mathematics (Statistics 3573 may be used to satisfy three hours of this mathematics requirement). These may be included as part of the major and/or minor.

### REQUIREMENTS FOR THE ASSOCIATE OF APPLIED SCIENCE IN CHEMICAL TECHNOLOGY DEGREE

See Page 83.

### REQUIREMENTS FOR THE ASSOCIATE OF APPLIED SCIENCE IN ELECTRONICS TECHNOLOGY DEGREE

See page 84.

## MIDWESTERN STATE UNIVERSITY

REQUIREMENTS FOR THE ASSOCIATE OF  
SCIENCE IN DENTAL HYGIENE

See page 281.

REQUIREMENTS FOR THE ASSOCIATE OF  
SCIENCE IN MEDICAL LABORATORY TECHNOLOGY DEGREE

See page 285.

REQUIREMENTS FOR THE ASSOCIATE OF  
SCIENCE IN NURSING DEGREE

See page 273.

REQUIREMENTS FOR THE ASSOCIATE OF SCIENCE  
IN RADIOLOGIC TECHNOLOGY DEGREE

See page 293.

REQUIREMENTS FOR THE BACHELOR OF  
BUSINESS ADMINISTRATION DEGREE

See page 89.

REQUIREMENTS FOR THE BACHELOR OF  
FINE ARTS DEGREE

See page 170.

REQUIREMENTS FOR THE BACHELOR OF SCIENCE  
IN CRIMINAL JUSTICE DEGREE

See page 222.

REQUIREMENTS FOR THE BACHELOR OF  
MUSIC DEGREE

See page 200.

REQUIREMENTS FOR THE BACHELOR OF  
MUSIC EDUCATION DEGREE

See page 201.

REQUIREMENTS FOR THE BACHELOR OF SCIENCE  
IN DENTAL HYGIENE DEGREE

See page 280.

REQUIREMENTS FOR THE BACHELOR OF  
SCIENCE IN EDUCATION DEGREE

See page 120.

REQUIREMENTS FOR THE BACHELOR OF  
SCIENCE IN MEDICAL TECHNOLOGY DEGREE

See page 287, 288.

REQUIREMENTS FOR THE BACHELOR OF SCIENCE  
IN RADIOLOGIC TECHNOLOGY DEGREE

See page 294.

REQUIREMENTS FOR THE BACHELOR OF SCIENCE  
IN RECREATION ADMINISTRATION DEGREE

See page 153.

## SECOND BACHELOR'S DEGREE

A student who holds a bachelor's degree from Midwestern State University or another accredited four-year institution of higher education may be awarded a second bachelor's degree, other than the degree held\*, by completing a minimum of 30 additional semester hours of prescribed work at Midwestern State University. Twelve semester hours of the 30 must be advanced or upper level work in the new major field. In addition, the student must meet all essential catalog requirements for the second degree.

## APPLICATION FOR DEGREE CANDIDACY

To graduate at the end of the Spring semester, all seniors must pay the graduation fee in the Business Office and file an Application for Degree Candidacy in the Office of the Registrar during the fall semester of their senior year (see University Calendar for deadline.) Seniors who plan to complete their work at the close of the fall semester should pay and file no later than July 1. Candidates for summer graduation should file by April 1.

Early application is encouraged to allow time for a complete records check prior to the student's enrolling for his last semester.

In order to be admitted to candidacy for graduation without reservation, a student must have at least five grade points above the number of semester hours attempted on his official Registrar's Office record at the time of application. Any student who enters his last semester or summer term in residence without a surplus of five grade points will be admitted **with reservation** and thereby forewarned that all degree requirements, both qualitative and quantitative, must be met.

## COMMENCEMENT

Midwestern State University conducts one commencement exercise each year at the end of the spring semester. Candidates who complete their work at the end of the fall and spring semesters are required to attend the spring commencement unless approved by the University President for graduation **in absentia**. The degrees conferred will be posted to the student's permanent record as of the spring commencement date.

August graduates may attend the following spring commencement if they desire, but the degrees will be posted to their permanent records as of the date of the last day of summer school.

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\*This means a student may not earn two Bachelor of Arts degrees even though the major fields may differ, or two Bachelor of Business Administration degrees, etc.

## REQUIREMENTS FOR PRE-PROFESSIONAL CURRICULA

In selecting any pre-professional program, the student should be mindful that the requirements vary with different schools. Therefore, it is always wise

for the student to obtain a catalog from the professional school which he plans to attend so that his course of study can be arranged to meet specific requirements.

It is recommended that the student complete work for the bachelor's degree since many professional schools require it as a prerequisite for admission, particularly schools of the medical sciences.

The pre-professional student should confer with his adviser in planning his course of study. Several pre-professional curricula have been worked out for student guidance. A copy may be obtained from the student's adviser.

Pre-dentistry, pre-engineering, pre-law, pre-medicine, pre-nursing, pre-osteopathy, pre-optometry, pre-pharmacy, and pre-veterinary medicine, are some of the pre-professional programs which may be taken at Midwestern State University.

A student interested in completing a pre-professional program other than those listed above should consult one of the academic deans of the university so that the program can be planned in keeping with catalog requirements of the institution where the student plans to complete his professional training.

## FOR GRADUATE DEGREE REQUIREMENTS

See page 306.





# **Financial Information**

**Registration Fees**

**Other Fees**

**Refunds**

**Exemptions from Registration Fees**

**Benefits for Veterans**

**Student Financial Aids**

**Residence Determination**



# Financial Information

JOE HOOPER, *Vice President for Business Affairs*  
102 Hardin Administration

The question of expense while attending college is of importance to every student. In a student body, there are so many different tastes, as well as such a wide range of financial resources, that each student must determine his own budget in keeping with his own needs and financial condition. It is possible to live simply and to participate moderately in the life of the college community on a modest budget. The best help the college authorities can offer the student in planning his budget is to furnish information on certain definite items of expense and acquaint him with others for which he will have to make provisions.

**Payment of Fees.** All fees are payable at the time of registration. Payments may be made by cash, check, or money order payable to Midwestern State University. Checks are accepted subject to collection.

**Note:** Midwestern State University reserves the right to change fees in keeping with acts of the Texas State Legislature or the University Board of Regents.

## ESTIMATE OF COST PER SEMESTER

For resident students taking 15 semester credit hours

|  |          |
|--|----------|
| Registration Fee .....                   | \$176.00 |
| Laboratory Fees (estimated) .....        | 10.00    |
| General Property Deposit .....           | 5.00     |
| (new students only)                      |          |
| Books (estimated) .....                  | 70.00    |
| Room and Board                           |          |
| (10 meals per week plan) .....           | 475.00*  |
| (15 meals per week plan \$20 additional) |          |
| Total (estimate) .....                   | \$736.00 |

Students subject to nonresident tuition or enrolling in courses subject to applied music fees should add the applicable fees to the above cost estimate to arrive at a total cost estimate for the semester or year.

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\*These are 1976-77 rates and subject to change.

**REGISTRATION FEES****REGULAR SESSION****Per Semester**

| Semester<br>Credit<br>Hours | Texas<br>Resident | Non-<br>resident | Nursing<br>Student* | Alien<br>Student** | Thesis Only<br>Student*** |             |
|-----------------------------|-------------------|------------------|---------------------|--------------------|---------------------------|-------------|
|                             |                   |                  |                     |                    | Resident                  | Nonresident |
| 20                          | \$223.50          | \$943.50         | \$193.50            | \$423.50           | \$ —                      | \$ —        |
| 19                          | 214.00            | 898.00           | 188.00              | 404.00             | —                         | —           |
| 18                          | 204.50            | 852.50           | 182.50              | 384.50             | —                         | —           |
| 17                          | 195.00            | 807.00           | 177.00              | 365.00             | —                         | —           |
| 16                          | 185.50            | 761.50           | 171.50              | 345.50             | —                         | —           |
| 15                          | 176.00            | 716.00           | 166.00              | 326.00             | —                         | —           |
| 14                          | 166.50            | 670.50           | 160.50              | 310.50             | —                         | —           |
| 13                          | 157.00            | 625.00           | 155.00              | 305.00             | —                         | —           |
| 12                          | 149.50            | 579.50           | 149.50              | 299.50             | —                         | —           |
| 11                          | 141.50            | 531.50           | 135.50              | 291.50             | —                         | —           |
| 10                          | 133.50            | 483.50           | 123.50              | 283.50             | —                         | —           |
| 9                           | 125.50            | 435.50           | 111.50              | 275.50             | —                         | —           |
| 8                           | 117.50            | 387.50           | 99.50               | 267.50             | —                         | —           |
| 7                           | 109.50            | 339.50           | 87.50               | 259.50             | —                         | —           |
| 6                           | 101.50            | 291.50           | 75.50               | 251.50             | 76.50                     | 101.50      |
| 5                           | 93.50             | 243.50           | 63.50               | 243.50             | 68.50                     | 93.50       |
| 4                           | 85.50             | 195.50           | 55.50               | 235.50             | 60.50                     | 85.50       |
| 3                           | 77.50             | 147.50           | 47.50               | 227.50             | 52.50                     | 77.50       |
| 2                           | 69.50             | 99.50            | 39.50               | 219.50             | 44.50                     | 69.50       |
| 1                           | 61.50             | 51.50            | 31.50               | 211.50             | 36.50                     | 61.50       |

**SUMMER SESSION****Per Summer Term**

| Semester<br>Credit<br>Hours | Texas<br>Resident | Non-<br>resident | Nursing<br>Student* | Alien<br>Student** | Thesis Only<br>Student*** |             |
|-----------------------------|-------------------|------------------|---------------------|--------------------|---------------------------|-------------|
|                             |                   |                  |                     |                    | Resident                  | Nonresident |
| 10                          | \$107.00          | \$467.00         | \$ 92.00            | \$207.00           | \$ —                      | \$ —        |
| 9                           | 97.50             | 421.50           | 86.50               | 187.50             | —                         | —           |
| 8                           | 88.00             | 376.00           | 81.00               | 168.00             | —                         | —           |
| 7                           | 78.50             | 330.50           | 75.50               | 150.50             | —                         | —           |
| 6                           | 70.00             | 285.00           | 70.00               | 145.00             | 70.00                     | 95.00       |
| 5                           | 62.75             | 237.75           | 57.75               | 137.75             | 62.75                     | 87.75       |
| 4                           | 55.50             | 190.50           | 50.50               | 130.50             | 55.50                     | 80.50       |
| 3                           | 48.25             | 143.25           | 43.25               | 123.25             | 48.25                     | 73.25       |
| 2                           | 41.00             | 96.00            | 36.00               | 116.00             | 41.00                     | 66.00       |
| 1                           | 33.75             | 48.75            | 28.75               | 108.75             | 33.75                     | 58.75       |

\* Students accepted for enrollment as nursing students by the Midwestern State University Department of Nursing.

\*\* Students who are citizens of another country who attended a Texas state college or university prior to June 19, 1975 or come from countries certified as charging U.S. citizens tuition of \$200 or less per semester or 12-week summer term at similar institutions in their country.

\*\*\* Students registered for thesis credit ONLY who have completed all other course work for the Master's Degree.

Note: Health Care Science. Under the provisions of H.B. 50, 63rd Legislature, R.S., students of the Sheppard Air Force Base School of Health Care Sciences enrolled at Midwestern under the cooperative agreement with the United States Air Force for 12 semester credit hours or less shall be charged a Registration Fee of \$50.00.



Registering under the proper residency classification is the responsibility of the student. If there is any question of his right to classification as a resident of Texas, it is his obligation to raise the question with the Office of the Registrar prior to registration.

## OTHER FEES

### General:

|  |           |
|--|-----------|
| Auditing Fee (per course audited)* .....           | \$25.00   |
| Applied Music Fee (per semester credit hour) ..... | 20.00     |
| Change of Schedule (see explanation) .....         | 3.00      |
| General Property Deposit (see explanation) .....   | 5.00      |
| Late Loan Payment Charge .....                     | 5.00      |
| Late Registration Charge .....                     | 5.00      |
| Late Room and Board Payment Charge .....           | 5.00      |
| Removal of an Incomplete Course Grade .....        | 1.00      |
| ROTC Handling Charge .....                         | 8.00      |
| Returned Check Charge (per check) .....            | 3.00      |
| Transcript (no charge for first copy) .....        | each 1.00 |

Note: No grades or transcripts will be released for students having financial delinquencies at the university.

### Vehicle Registration (see explanation)

|                                 |      |
|---------------------------------|------|
| 8 semester hours or more .....  | 8.00 |
| 7 semester hours or less .....  | 4.00 |
| Duplicate or second decal ..... | 1.00 |

**Course and Laboratory Fees** are listed in course descriptions.

### Degree Fees:

|  |       |
|--|-------|
| Graduation Fee (see explanation) ..... | 20.00 |
| Thesis Binding (per copy) .....        | 5.00  |

**Room and Board Charges** (see information following this section for payment plans)

|  |          |
|--|----------|
| Reservation and room deposit (see explanation) ..... | 40.00    |
| Room rent  |          |
| Semester Rates:                                      |          |
| Regular Room .....                                   | \$240.00 |
| Additional Charge for Private Room .....             | 60.00    |
| Summer Term Rates:                                   |          |
| Regular Room .....                                   | 80.00    |
| Additional Charge for Private Room .....             | 20.00    |

### Meal Plans (per semester)\*\*

|   |        |
|---|--------|
| Ten meals per week (mandatory) .....    | 235.00 |
| Fifteen meals per week (optional) ..... | 255.00 |

\*Senior citizens 65 years of age or older may audit any course offered by Midwestern without payment of a fee if space is available. Also see page 21.

\*\*These are 1976-77 rates and subject to change.

**Testing Fees:**

|  |       |
|--|-------|
| ACT Test (residual) .....                      | 8.00  |
| Correspondence Test .....                      | 5.00  |
| GED Test (for non-high school graduates) ..... | 10.00 |
| Miller Analogies Test .....                    | 8.00  |
| Nursing Pre-entrance Examination .....         | 2.00  |
| Nursing Achievement Examination .....          | 10.00 |
| Proficiency Examination .....                  | 15.00 |

**INFORMATION AND DESCRIPTION OF FEES**

**General Property Deposit.** Each student enrolled in the university must make a general property deposit of \$5.00. This deposit is subject to charges for property loss, damage, breakage, or violation of rules in library and laboratories. This deposit, less charges, will be returned to the student at his request upon termination of his tenure as a student.

**Student Service Fee.** (Sec. 54.503 Tex. Ed. Code). The Board of Regents of Midwestern State University is authorized to charge and collect from students fees to cover the cost of student services which the Board deems necessary or desirable in carrying out the educational functions of Midwestern State University as determined by the Board of Regents.

Student services means and includes such services as recreational activities, intramural and intercollegiate athletics, artists and lecture series, cultural entertainment series, musical activities, debating and oratorical activities, student publications, student government, and any other student activities and services specifically authorized and approved by the Board of Regents.

**Medical Service Fee.** (Sec. 54.504 Tex. Ed. Code). Each student who enrolls for classes taught on the campus of Midwestern State University pays a fee to provide medical services for students. The Medical Service Fees are expended only for the purpose of providing medical services for students.

**Change of Schedule.** Change of schedule means the adding of a course, dropping of a course or both. **There will be a \$3.00 charge for each schedule change.**

**Automobile Registration.** (Sec. 51.202 Tex. Ed. Code). All students, faculty members, and employees of the university who park or operate a motor vehicle on university property must register such vehicle and obtain and display as directed, a registration decal. This decal is not a parking permit and does not guarantee available parking space, but simply allows legal operation of a motor vehicle on university property.

Parking space for campus visitors and university guests is located behind and west of Hardin Administration Building.

**Graduation Fee.** A fee of \$20.00 must be paid at the time applicant files for graduation. No refunds will be made after the final date for application for graduation or for students graduating in absentia. Caps and gowns can be picked up at the University Bookstore Monday through Friday, during the week of commencement.

**Reservation and Room Deposit.** This deposit serves as an application fee to reserve a room. Once a student occupies a room the deposit serves to cover any charges assessed the student resulting from occupancy of the room. Following clearance through the Student Affairs Office, the deposit will be refunded by the Business Office within 30 days after the student moves from the residence hall. Students wishing to leave their deposits up to reserve a room for a later date must notify the Student Affairs Office. IF A STUDENT MOVES FROM THE RESIDENCE HALL DURING THE SEMESTER, THE DEPOSIT WILL **NOT** BE REFUNDED.

**Room and Board Charges and Refunds.** Room and Board for the fall and spring semesters may be paid in full at the beginning of each semester or in four equal payments of \$118.75 (add \$15 for private room and/or \$5 for 15 meal per week plan) payable on or before the following dates:

| Fall semester  | Spring semester |
|----------------|-----------------|
| Aug. 26, 1977  | Jan. 13, 1978   |
| Sept. 23, 1977 | Feb. 10, 1978   |
| Oct. 21, 1977  | March 10, 1978  |
| Nov. 18, 1977  | April 14, 1978  |

Room rent for the summer must be paid in full at the beginning of each term. The penalty for a late room and board payment is \$5.00.

If a student officially withdraws from the university, a refund of room and board charges will be made based upon the date of withdrawal. Refunds for students not withdrawing from the university, but moving from the residence hall during the semester, will be for only those amounts paid for periods subsequent to the pay period in which the student moved from the residence hall. Refunds for meal tickets will be made only upon presentation of the unused portion of the meal ticket to the Business Office.

For information concerning housing requirements, facilities, reservations, and deposits, see section on Student Affairs Information, page 65.

## REGISTRATION FEE REFUNDS

**Refund Regulations.** Registration fees and other fees may be refunded in part following OFFICIAL withdrawal from the university. **Refunds will not be made for dropped courses or for transfer to courses carrying a lesser number of hours.**

Refunds will be made in accordance with the following schedule:

|                              | Regular<br>Semester | Summer<br>Term |
|------------------------------|---------------------|----------------|
| First week of classes .....  | 80%                 | 60%            |
| Second week of classes ..... | 60%                 | 20%            |
| Third week of classes .....  | 40%                 | none           |
| Fourth week of classes ..... | 20%                 | none           |
| Thereafter .....             | none                | none           |

Full refunds of registration fees and other fees will be made if withdrawal is due to: fault of the university; death; permanent disability; or transfer under military orders.

Refunds will not be made immediately upon withdrawal. A check will be mailed to the address left with the Business Office within two weeks.

## **EXEMPTIONS FROM REGISTRATION FEES**

### **Hazelwood Act. (Sec. 54.203 Tex. Ed. Code)**

A Texas veteran may be exempted from certain required fees if (a) he was a bona fide legal resident of Texas at the time he entered service and has resided in Texas for a period of not less than twelve (12) months prior to his registration; (b) he served in the armed forces or in certain auxiliary services in World War I, World War II, the Korean War, or the Cold War and received an honorable discharge from the armed forces (except if said discharge was a result of being over the age of thirty-eight (38) or because of a personal request for discharge); and (c) he is not eligible to receive educational benefits under federal legislation in effect at the time of his registration.

To obtain this exemption, the veteran should apply at the Business Office and furnish a certified copy of his discharge papers well in advance of his registration. Until his entitlement for this exemption has been established, the student will pay the regular fees from his own funds.

The above exemptions of certain fees also extends to children of members of the armed forces who were killed in action or died while in the service in World War II, the Korean conflict, or in the Cold War and to orphans of members of the Texas National Guard and the Texas Air National Guard killed since January 1, 1946.

## **BENEFITS FOR OTHERS**

### **Children of Certain Disabled Public Employees (Sec. 54.204 Tex. Ed. Code)**

Children of certain firemen, peace officers, employees of the Texas Department of Corrections, and game wardens who have suffered injury resulting in death or disability sustained in the line of duty are exempt from payment of all dues, fees, and charges. Application for this exemption should be made to the commissioner of Higher Education, Coordinating Board, Texas College and University System.

### **Deaf and Blind Students (Sec. 54.205 Tex. Ed. Code)**

Certain deaf and blind persons who are Texas residents are eligible for exemption from payment of all dues, fees, and enrollment charges. Application for this exemption should be made to the Commissioner of Higher Education, Coordinating Board, Texas College and University System.

### **Good Neighbor Scholarship (Sec. 54.207 Tex. Ed. Code)**

Certain native-born students from other nations of the American hemisphere may be eligible for exemption of tuition following approval of the State Board of Education. Individuals requesting this exemption should contact the Registrar well in advance of their registration.



**Honor Graduate (Sec. 54.201 Tex. Ed. Code)**

The highest ranking graduate of each accredited Texas high school is eligible for a scholarship which provides full exemption from tuition for both semesters of the first regular session immediately following his graduation. When in the opinion of the institution's president the circumstances of an individual case (usually military service) merit such action this exemption may be granted for any one of the first four regular sessions following that individual's graduation from high school. Application for this exemption should be made in the Business Office.

**Children of Prisoners of War or Persons Missing in Action (Sec. 54.209 Tex. Ed. Code)**

Dependent children of any person who is a domiciliary of Texas on active duty as a member of the armed forces of the United States, and who at the time of registration is classified by the Department of Defense as a prisoner of war or as missing in action are eligible for exemption of tuition and fees. Application for this exemption should be made in the Business Office well in advance of the student's registration.

## **BENEFITS FOR VETERANS**

Unless superseded by congressional action, eligible veterans who have served on active duty since June 1, 1966 are entitled to one and one-half months of educational assistance for each month of service under Public Law 93-504. The same bill extends educational benefits to widows of veterans who died from service-connected causes. Applications for educational benefits may be obtained at the Office of Veteran Affairs, Midwestern State University.

Any person presently on active duty in the Armed Forces of the United States who has served on active duty for at least 181 days is also eligible for the educational benefits described above and should make application on **VA Form 22-1990a** available in the Office of Veteran Affairs at Midwestern State University, or the Base Education Office, Sheppard Air Force Base.

Public Law 634 provides educational assistance to (1) sons and daughters of deceased veterans who died while in service, or after discharge from service-connected disability; and (2) sons and daughters of veterans who have service-connected disabilities considered to be total and permanent in nature under Chapter 35, Title 38, U.S. Code. Educational assistance is also available under the same law to widows of veterans (if not remarried) or wives of totally disabled veterans. Application VA Form 22-5490 or 22-5490w, whichever is appropriate, may be obtained from the Office of Veteran Affairs at Midwestern State University.

Under the provisions of Public Law 894, Chapter 31, Title 38, U.S. Code, veterans who, as a result of a service-connected disability require re-training or other vocational rehabilitation, may be entitled to educational assistance. Application VA 22-1900 may be obtained from the Office of Veteran Affairs, Midwestern State University, or inquiry should be made to the Veterans Administration Regional Office, Waco, Texas.

Tutorial assistance is available for veterans pursuing a course of education above the high school level on at least a halftime basis. The veteran student who experiences difficulty in a course should contact his instructor as early in the semester as possible. If the instructor believes that tutorial assistance can be of value, the Office of Veteran Affairs will help in making arrangements for the tutor.

Receipt of veteran benefits does not in itself prevent a student from receiving other student aid or benefits; however, the student must meet the qualifications of the other programs.

Texas veterans who have no eligibility under any existing program of the United States Government may be eligible for exemption of tuition and certain fees under the provisions of the Hazlewood Act. See Exemptions from Registration Fees listed in this section.

## STUDENT FINANCIAL AID

More complete information regarding scholarships, loans, grants, and part-time employment may be obtained from the Financial Aid Office, room 112, Hardin Administration Building. Correspondence should include expected time of enrollment (fall or spring semester or summer terms); expected major and minor fields of study (if known); applicant's classification (entering freshman, reentering freshman, sophomore, transferring students, etc.); and marital or dependency status.

### SCHOLARSHIPS

Although a student's financial need may be considered, scholarships are basically awarded for academic or other special abilities indicated by the applicant's past record, including grades (high school and/or college), SAT or ACT scores, participation in extra curricular activities, and other possible criteria.

**Departmental Scholarships.** Most scholarships are awarded by the department chairman of the applicant's major field of study (art, music, etc.) Applicants for scholarships only (no need-based aid) should contact the chairman of the department directly. However, scholarship only application forms can be obtained from the Financial Aid Office.

**Honors Program Scholarships.** The Midwestern State University Honors Program provides a number of scholarships. Further information concerning this program is given on page 78 of this catalog.

**MOST SCHOLARSHIPS REQUIRE THAT APPLICATIONS BE FILED ON OR BEFORE APRIL 1 (for the following fall or fall and spring semesters.) LATE APPLICATIONS WILL ONLY BE CONSIDERED IF SURPLUS SCHOLARSHIP FUNDS SHOULD EXIST.**

## LOANS

**SHORT TERM LOANS** (To be repaid during the semester or summer term in which they are borrowed)

**Fee Loans.** (Applied for and received during registration periods only. This is the only type of loan available on registration days.) **Not available to entering freshmen.** Students with 12 or more credit hours completed with a minimum C (2.0) cumulative grade point average and not on any type of probation may obtain these loans to cover not more than 75% of total fees, but not to exceed \$250.00. Payments are scheduled during the semester for which the money is obtained. Loans can become payable on demand and **are payable prior to early withdrawal.** There are late charges for all payments not made as scheduled.

**Emergency Personal Loans. For school-related needs only** and not to exceed \$75.00. Borrower must have at least 12 credit hours with a minimum C (2.0) cumulative grade point average and not be on any type probation. Payable as scheduled, before the end of the semester or on demand or **prior to early withdrawal.** There are late charges for payments not made by due dates as scheduled.

**LONG TERM LOANS** (Payment begins **after** student ceases to carry at least one-half full time course work load — less than six hours.)

**Application deadlines are:** FALL SEMESTER OR FALL AND SPRING SEMESTERS—July 1; SPRING SEMESTER ONLY—November 1; SUMMER TERMS—April 1.

STARTING WITH FALL 1976, any long term loan applicant (other than for Federally Insured or Guaranteed Loans) **MUST** file for the Basic Educational Opportunity Grant (BEOG described below) before requesting a loan. Also applicants must file the Family Financial Statement (FFS) with American College Testing (ACT.) The FFS application form can be obtained from the high school counselor or a nearby college financial aid office. **The BEOG and FFS forms should be filed at least a month prior to requesting an application for financial aid and expecting a commitment of such aid funds.**

**Hinson-Hazlewood Loan (Texas Opportunity Plan).** Need must be established (BEOG and FFS.) Available to residents of Texas or to members of the armed forces permanently stationed in Texas. Two letters of recommendation are required.

**National Direct Student Loans.** Need must be established (BEOG-FFS). Entering freshmen in the upper 25% of their high school class and in the upper 25% (local percentile) on the ACT or SAT tests required for admission are eligible to apply. Students other than freshmen, including transfers, must have and must maintain at least a 2.5 cumulative grade point average on all college work previously attempted (on a 4.0 basis). Undergraduate and graduate students may be eligible, based on demonstrated need.

**Federally Insured Student Loan Program.** If adjusted gross income is less than \$15,000, interest is subsidized (paid by the government) while the student continues to be at least a half-time student. If adjusted gross income

is \$15,000 or more, the loan may be obtained on a non-interest subsidized basis; that is, the student or his family must pay the interest due yearly. 1974-75 interest rate was simple 7%, subject to change. Repayment periods and amounts will vary but begin after the student ceases to continuously carry the required college work load. These loans are obtained through the school in cooperation with the student's local bank or other lending institution. Not all banks participate, but the student should check with those in his home town.

## GRANTS

Like scholarships, grants need not be repaid; but unlike scholarships, grants are awarded based on demonstrated financial need rather than on academic or other special abilities.

**Basic Educational Opportunity Grants (BEOG)** For 1977-78 these grants will be available to any undergraduate student who can qualify based on financial need, and who will be enrolled for at least six semester hours per semester. Applications can be obtained at high schools, public libraries and financial aid offices of all post-secondary schools. The BEOG application is completed and forwarded as instructed in the application **but not to the school**. A resulting eligibility form is returned to the applicant who must immediately send the results to the school of his or her choice.

**ALL STUDENTS APPLYING FOR ANY TYPE OF NEED-BASED AID** (grants, loans or employment) **MUST SUBMIT THE BEOG RESULTS** (plus a FFS statement mentioned above) **TO THE FINANCIAL AID OFFICE BEFORE OTHER AID CAN BE CONSIDERED.**

**Supplemental Educational Opportunity Grants.** Available to undergraduate students who demonstrate exceptional financial need, who are the recipients of a BEOG (see above), and are utilizing some form of self-help (available work or loans.)

**Nursing Student Grants.** This program is being phased out, but some grants are available to students with exceptional need who are in, or accepted for, nursing school.

**Law Enforcement Education Program (LEEP) Grants.** Grants to cover fees and books are available to students who are currently employed in, or are on leave of absence from law enforcement agencies such as local police, highway patrol, campus security, etc.

**Texas Public Educational Grants.** (Available to Texas residents and some non-resident students.) Generally non-supplemented aid to cover fees and books. May be used to match self-aid funds.

Grant application deadlines are the same as those for Long Term loans, above.

A limited number of such scholarships and grants-in-aid are available in amounts from \$50 to \$450 per semester. When such funds are controlled by and administered by Midwestern State University and the donee is selected by



Midwestern State University, the final selection is made by the Financial Aid Committee and the Director of Financial Aid. When such funds are not administered by Midwestern State University and Midwestern does not select the recipient, the donor handles the funds directly with the recipient in a manner of the donor's choice.

## PART-TIME EMPLOYMENT

**Non-need-based Employment.** Students enrolled for at least nine hours during the regular semesters or three hours during summer terms, have at least a C (2.0) cumulative grade point average, and are not on probation or advised admission status, are eligible for job referral.

Interested and eligible students should check the Financial Aid bulletin board in Clark Student Center for job postings. If a job is available in the area of the student's qualification and interest, the student should contact the Financial Aid Office for further details. General applications for non-existing job openings are not accepted.

Most non-need based job openings will be off-campus work. Campus jobs are limited and generally filled by upperclassmen through application to the department chairmen.

**Need-based Employment — College Work-study Program.** Need must be established to be eligible for employment under this program. A BEOG and ACT-FFS (see above) must be filed prior to application for financial aid. Work grants under CW-S are assigned to the neediest students first (as part of an overall financial aid package) in conjunction with other grants and loans.

**Note:** Because applicants and jobs must be matched before fall semester registration, to receive consideration for CW-S employment the applicant should submit his BEOG results, ACT-FFS and MSU general aid application to the MSU Financial Aid Office **no later than July 1 for the next fall and spring semesters**. Late applications can only be considered if jobs and funds are not depleted by deadline date.

## VOCATIONAL REHABILITATION

The Texas Rehabilitation Commission offers assistance for tuition and non-refundable fees to students who have certain disabling conditions provided their vocational objectives have been approved by a TRC Counselor. Examples of such conditions are orthopedic deformities, emotional disorders, diabetes, epilepsy, heart conditions, etc. Other services are also available to assist the handicapped student to become employable. Application for such service should be made at

TEXAS REHABILITATION COMMISSION  
Wichita Falls District Office  
Brook Place Bldg.  
710 Brook Ave.  
Wichita Falls, Texas 76301

## DETERMINATION OF RESIDENCE FOR TUITION PURPOSES

Each student must complete and have on file in the Office of the Registrar an official residence questionnaire **prior** to his initial enrollment at Midwestern State University. A new questionnaire must be filed thereafter whenever a change in the student's status affecting his residency classification for tuition purposes occurs or there is a break of one semester or more in his attendance at Midwestern State University.

Residence for tuition purpose is determined by state law for state-supported colleges, and as such is subject to change by the Texas Legislature. Additional information may be obtained from the Office of the Registrar. The following is furnished to explain and clarify questions concerning residence under the present law:

1. The residence status of a student under 18 years of age is considered to be the same as his parents. If parents are divorced, a minor has the same residence status as the parent with whom he is making his home.

2. A student 18 years of age or older who comes from out of state is considered a non-resident for tuition purposes as long as he remains in Texas for educational purposes.

3. Residence for tuition purposes is established by domicile residence in the state for 12 months and actions unequivocally indicative of a fixed intention to become a Texas resident.

4. Persons in the military service and their dependents are classified as residents provided they are assigned to a permanent duty station in Texas or maintain their Official Home of Record in Texas with the military service. Non-resident military personnel must submit certification of active duty in Texas at each registration to be eligible for resident tuition rates.

5. An alien is considered to be a non-resident unless he is in the United States on an immigrant visa. Students on immigrant visas are classified in reference to resident status the same as United States citizens.

6. A student classified as a non-resident retains that classification until he provides proof of residence to the Office of the Registrar.

# **General Information of the University**

**Enrollment and Faculty Statistics**

**Location and Buildings**

**Cultural Opportunities**

**Intercollegiate Athletics**

**History**

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# General University Information

TOM HAYWOOD, *Director of University Affairs*  
110 Hardin Administration

## ENROLLMENT AND FACULTY STATISTICS — FALL SEMESTER 1975

|                               | Men          | Women        | Total        |
|-------------------------------|--------------|--------------|--------------|
| Freshmen                      | 902          | 863          | 1,765        |
| Sophomores                    | 492          | 480          | 972          |
| Juniors                       | 399          | 317          | 716          |
| Seniors                       | 377          | 301          | 678          |
| Undergraduate non-degree      | 2            |              | 2            |
| Graduate Degree               | 162          | 122          | 284          |
| Graduate non-degree           | 83           | 99           | 182          |
|                               | <hr/>        | <hr/>        | <hr/>        |
| <b>Total Enrollment</b>       | <b>2,417</b> | <b>2,182</b> | <b>4,599</b> |
| Faculty-Student Ratio         |              |              | 1:18         |
| Full-time faculty             |              |              | 154          |
| Faculty with doctoral degrees |              |              | 81           |
| Part-time faculty             |              |              | 41           |
| Teaching assistants           |              |              | 46           |

## LOCATION

Midwestern State University is located in the southwestern part of Wichita Falls, Texas, the center of a rich agricultural, oil and ranching region. Greater Wichita Falls has a population of 102,500. Transportation facilities in and out of Wichita Falls include a network of paved highways, bus and airline services.

## BUILDINGS AND GROUNDS

The original campus consisted of 40 acres of land that was given to the institution by W. B. Hamilton and N. H. Martin. Later, the university campus was expanded to 100 acres by the addition of a 60-acre tract, and a 1970 acquisition has added approximately 65 acres directly south to the campus.

House Bill No. 688, passed by the 58th Texas Legislature, conveyed 519.83 acres of land, located about one mile south of the main campus, to Midwestern State University. This acreage has been incorporated into the campus planning program for future growth and development of the university.

There are approximately 30 buildings on the main campus. The instructional buildings are: Alumni, Arena Theatre, Bea Wood Hall, Classroom, Dil-

lard, Ferguson, Fowler, Hardin Administration, Martin, McCullough, McGaha, Memorial, Moffett Library, Music, Music Education, Music-Instrumental, Physical Education, and Science.

All buildings on the main campus have a planned architectural harmony. All classes are held in air-conditioned facilities. Residence halls consist of modern facilities for both men and women.

In addition to the instructional buildings and residence halls, other university facilities include Clark Student Center; Daniel Building which houses the maintenance shops; Vinson Infirmary; university supply and the central power plant.

Clark Student Center provides space for the bookstore, food service center, student personnel offices, student government offices, meeting rooms and recreational facilities. The bookstore provides sundries in addition to books and study materials. Food service consists of a cafeteria and snack bar which provides food at hours other than those allocated for regular meals.

**Physical Education Building.** The Physical Education Building consists of a gymnasium with dressing rooms, a natatorium with separate diving area and the D.L. Ligon Coliseum with seating for 5,300.

**Moffett Library**, named in honor of Senator George Moffett, is housed in a three-story, air-conditioned building completed in 1964. Its facilities provide seating for approximately 580 readers, including more than 300 individual study desks, and private study alcoves for use by the faculty and graduate students. Open stacks give users free access to books, including most of the reserve books.

The library is associated with the Texas Information Exchange (TIE), a TWX teletype network uniting all Texas state-supported institutions of higher education. Through this arrangement, the library has rapid access to any academic or commercial teletype installation in the United States and Canada.

Library holdings include approximately 253,000 volumes, periodical titles, manuscripts, microfilm, microfiche, phonodiscs, transparent slides, cassette tapes, and a large collection of textbooks and curriculum guides. Two micro-book libraries include the 20,000 volume Library of American Civilization. Since 1964 the library has been a depository for United States Government Publications and so has amassed a large collection of United States, as well as Texas, documents.

Services provided include a reference service offered during hours of library operation; photoduplication; interlibrary loans for the faculty and students; and an audio library featuring 16 individual listening stations, each with access to four program sources.

**Fine Arts Center.** Midwestern State's new \$5.5 million Fine Arts Center will be one of the finest facilities of its kind in the state when completed in late 1977. The Departments of Art and Speech and Drama will be initially housed in the building, but plans include an addition for the Department of Music.

## CULTURAL OPPORTUNITIES

A variety of cultural and artistic opportunities is offered by Midwestern State University including recitals, major theater productions, workshops, conferences, films, and concerts.

Art cinema classics, both foreign and domestic, are regularly presented through the sponsorship of the Student Union Board.

The Artist-Lecture program offers outstanding speakers of national and international acclaim, drama productions, artists, and musicians. Musical presentations provide a wide range of forms including jazz, rock, folk, and classical.

Through the talents within the music department, an assortment of interests are offered students and friends. These include performances and concerts by the band and choir; faculty and student recitals, both instrumental and vocal; musicals; and summer workshops.

In addition to the presentations of several major theatrical productions by the speech and drama department each year, it also provides individual performers such as poetic and dramatic readers.

## INTERCOLLEGIATE ATHLETICS

The university is presently a member of District 8, National Association of Intercollegiate Athletics (NAIA) and Texoma Athletic Conference for men, and Association of Intercollegiate Athletics for Women. Men compete in baseball, basketball, soccer and tennis; women compete in basketball, tennis and volleyball. Entering freshmen and junior college transfers are eligible for varsity competition. Other transfer students must spend one semester in residence to become eligible.

A policy-recommending body of the intercollegiate sports programs consists of four faculty members and three students. The Director of Athletics and Directors of Intramurals-Extramurals are ex-officio members of the committee.

Participation in athletics by an officially recognized student group with other universities is a club sport. Such activity is conducted by volunteer coaches and is financially self-sustaining. Sports clubs are under the authority of the Faculty-Student Athletic Committee and report to the Chairman of the Health and Physical Education Department.

## UNIVERSITY HISTORY

Midwestern State University is a coeducational university, composed of the Schools of Business Administration, Education, Humanities and Social Sciences, Sciences and Mathematics, and the Graduate School.

In 1922 The Wichita Falls Junior College made its appearance as the first municipal junior college in Texas. Standard junior college work was offered and was approved by the State Department of Education. Later, by an en-

abling act of the Texas State Legislature and by a vote of the people of Wichita Falls, a tax unit was established — the Wichita Falls Junior College district. In 1937, in honor of a gift to the institution by Mr. and Mrs. John G. Hardin, Wichita Falls Junior College was renamed Hardin Junior College.

In 1946 the senior college division was established and the name of the institution became Hardin College. In January, 1950, the name was changed to Midwestern University, and the junior college division was retained. In March, 1948, the university became a member of the Association of Texas Colleges and Universities, and in December, 1950, it was granted full membership in the Southern Association of Colleges and Schools.

The Graduate School was established in January, 1952, and was approved by the State Board of Education the following year.

By action of the 56th Legislature of the State of Texas, Midwestern University became a part of the Texas Colleges and Universities System on September 1, 1961, and the junior college division was dissolved.

In December, 1972, the Southern Association of Colleges and Schools reaffirmed full accreditation of Midwestern's academic program as a result of a detailed self-study covering two years and confirmation of the findings by a visiting committee of the Southern Association. The name was changed to Midwestern State University in 1975.

Midwestern State University offers the Associate of Applied Science degrees in Chemical Technology and Electronic Technology, and Associate of Science degrees in Dental Hygiene, Medical Technology, Nursing, and Radiologic Technology. Baccalaureate degrees are: Bachelor of Arts, Bachelor of Business Administration, Bachelor of Fine Arts, Bachelor of Music, Bachelor of Music Education, Bachelor of Science, and Bachelor of Science in Dental Hygiene, in Education, in Law Enforcement, in Medical Laboratory Technology, in Radiologic Technology and in Recreation.

The following master's degrees are offered: Master of Arts, Master of Business Administration, Master of Education, Master of Music, Master of Music Education; Master of Science, and Master of Science in Physical Education.

## UNIVERSITY AFFAIRS

The advancement program endeavors to make the university's many constituencies more aware and better informed about the institution and its programs.

Alertness to opportunity is an end result of such a program which brings to the institution increased measures of good will and financial resources for predetermined purposes.

Arrangements for public services and assistance may be made through the Office of University Affairs.

A list of speakers and special programs covering a variety of subjects is maintained by this office for benefit of area organizations and clubs.



All official university news is released through the Office of Public Information.

The Office of University Affairs serves as liaison between the university and area high schools. Midwestern State University is represented at career days and college forum nights at many high schools each year.

Specialists on the faculty are available for assistance and advice to those asking for educational testing and guidance, scientific information, and assistance in many other fields. Requests for such services may be made through the Office of University Affairs.

## **EX-STUDENTS ASSOCIATION**

Any person who has attended MSU or any of its predecessor schools is eligible to be an active member of the MSU Ex-Students Association.

The Ex-Students Association seeks to stimulate the interest and participation of alumni in the progress of the university and to promote a feeling of loyalty and fellowship between the institution, faculty, students, alumni and the community.

Membership in the association makes the ex-student eligible for numerous benefits, and information is available in the University Affairs Office.

## **BOARD OF REGENTS**

The Board consists of nine regents, three of which are appointed for six-year terms biennially by the Texas Governor with the State Senate approval. See page 3 for current individual Board members.

## **PHILOSOPHY AND OBJECTIVES**

The Board of Regents, faculty, and staff believe:

That the university is for the student and that, in as far as possible, educational opportunity shall be provided for all eligible students who can profit thereby, advocating consistently the pursuit of excellence, expecting of each individual the fullest development of his abilities.

That the university has a responsibility for providing intellectual leadership to its students and, within its community of influence, encouraging intellectual development through access to the accumulated record of human experience, unrestricted questioning of old ideas, and responsible inquiry into the validity and significance of new ideas.

That the integrity of teaching, research, and learning shall be maintained.

That the university has a responsibility for the total person; therefore, its educational program should consist of a broad curriculum of arts and sciences to enable each student to understand himself as a social, intellectual, physical, and spiritual being; and adequate professional education for each student to achieve competence in his chosen field.

To accomplish the purposes implied by its philosophy, Midwestern State University accepts the following responsibilities and objectives:

To make its opportunities available to those who are eligible for admission through completion of secondary education or an equivalent preparation, and who are willing to accept the discipline demanded by excellence.

To provide a program of the highest possible academic excellence which, from a basis of knowledge, fosters a process of decision making based on logical habits of inquiry, analysis, and evaluation and competence to others the results of such efforts.

To provide, both at undergraduate and graduate levels, the opportunity for such specialization as will prepare the graduate either for immediate employment or for advanced study, and to exhibit and implant an awareness of man's inability ever to complete the process of education.

To provide for the needs of the superior student and to instill in him the realization of his greater responsibility to society.

To plan and conduct the university's program of student services and guidance in terms of each student as a person with individual needs, abilities, and potentialities.

To provide the inspiration and means, both to graduates and to the community at large, for continuing intellectual development beyond the years of formal education.

To provide, through the attitudes, actions, and programs of the university, an example of adherence to the broadest democratic, ethical, and academic ideals to the end that the individual may develop the wisdom and dedication requisite to assuming a role of leadership in a free society.

To provide in graduates the kind of informed, thoughtful, and constructive persons who know how to think, to evaluate issue, and to distinguish truth from error, who have developed a sense of humor, and who possess an appreciation of the cultural and aesthetic values of life.

To conduct a continuous study and evaluation of the university's philosophy and objectives in order to insure their validity in a changing culture, and to endeavor at all times to achieve consistency of actual practice with them.

### **ANTI-DISCRIMINATION STATEMENT**

In all of its policies and programs Midwestern State University does not discriminate against any individual because of race, creed, color, sex or national origin.

# **Information On Student Affairs**

## **Counseling**

- Personal-Social
- Psychological
- Group
- Career

## **Testing**

## **Student Activities**

## **Student Developmental Programs**

## **Leadership Development Scholarships**

## **Foreign Student Advisement**

## **Student Health Service**

## **Intramural Activities**

## **Placement Service**

## **Publications**

## **Student Government**

## **Student Housing**

## **Student Organizations**

- Governing Councils
- Departmental Organizations
- Religious Organizations
- Scholastic and Honorary Organizations
- Service Organizations
- Greek Organizations
  - Sororities
  - Fraternities
- Special Interest Organizations

## **Family Education Rights and Privacy Act**





# Information on Student Affairs

JAMES L. STEWART, *Vice President for Student Affairs*  
Clark Student Center 110

VIOLA GRADY, *Dean of Students*

CHARLES M. HAGLER, *Director of Testing, Career Counseling  
and Placement*

WOODROW W. GOSSOM, JR., *Assistant Dean of Students*

The area of Student Affairs has as its primary purpose the planning and administration of a program of services to students which is compatible with the philosophy and objectives of the university. Services and programs are designed to aid students in all areas of self-development with the ultimate objective of helping students grow into mature, self-actualized adults who will contribute in a significant way to their community.

The area of Student Affairs is responsible for the university-wide counseling and guidance program which includes personal-social-psychological counseling, career counseling and group counseling and guidance. Other areas of responsibility include the university testing program; student developmental programs; student housing; new student orientation; student discipline; supervision of all student organizations; student activities; administration of policies relating to student social functions; calendar of events; student health services; Clark Student Center program; senior and alumni placement.

The personnel of the area of Student Affairs includes the Vice President for Student Affairs; Dean of Students; Director of Placement, Testing and Career Counseling; Assistant Dean of Students; Director of Health Services; University Physicians; Student Center Director; Residence Hall Directors; and Student Counselors.

## APPLICABILITY OF REGULATIONS

Enrollment in Midwestern is considered by the university an implicit declaration of acceptance on the part of the student of university regulations as outlined in the most recent issues of the catalog and Student Handbook. The Student Handbook is published once each year under separate cover from the catalog and made available to students at the time of registration or through the Student Affairs Office.

## COUNSELING

**Personal-Social, Psychological, Group.** A major responsibility of the Dean of Students and Assistant Dean of Students is the individual and group counseling of students. Students are urged to contact either of the persons when problems of a personal, social or psychological nature arises. The deans, who are professional counselors, will provide counseling services themselves or, when advisable, will make referrals, thus enabling the students to obtain

professional assistance. Students may contact the Dean of Students or Assistant Dean of Students or may be referred to the Student Affairs Office by faculty.

**Career Counseling.** Career counseling is made available through the Office of Testing, Career Counseling, and Placement. Counseling is provided to assist students in making occupational and vocational choices that are consistent with their interests, aptitude, personality, and ability. The counseling is supported by the Testing Services of the office when needed. In addition, the office maintains a library of career information regarding job descriptions, minimum requirements, salaries, and outlook for the future. Students interested in career counseling should contact the Office of Testing, Career Counseling, and Placement in room 101 of the Clark Student Center.

## TESTING

Midwestern State University, through the Office of Testing, Career Counseling, and Placement, offers a wide variety of national tests to its students and the community. These include: The American College Test, Graduate Record Exam, National Teacher Exam, Graduate Management Admission Test, Law School Admission Test, Dental Hygiene Aptitude Test, Miller Analogies Test, and General Educational Development Test.

In addition, the office makes available on a voluntary or referral basis, individual tests or inventories in the areas of interest, personality, and intelligence assessment. The College Level Examination Program, which provides credit by examination, is also available. Further information on the CLEP program can be found in the Admissions and Registration section of the catalog. Students interested in any phase of the testing program are invited to contact the Director of Testing in room 101 of the Clark Student Center.

## STUDENT ACTIVITIES

The Area of Student Affairs through various groups provides a well-rounded and versatile program of student activities designed to appeal to a wide range of interests. In addition to assisting student organizations on new and innovative approaches to student activities, certain recurring functions have become traditional at Midwestern State University. Included among these traditional functions are the Fall Festival, Homecoming Activities, the Military Ball, the Women's Recognition Banquet, and the Student Union Board Programs. For additional programs planned for students, see STUDENT DEVELOPMENTAL PROGRAMS.

## POLICIES RELATING TO STUDENT ACTIVITIES

### A. Registration

1. All activities of any recognized student organization must be registered in the Office of the Dean of Students. This registration applies to functions held off-campus as well as on-campus.

2. Registration Cards (University Calendar Application) are available in the Student Affairs Office and must be completed before an event is registered officially.
3. For convenience of the organization, completion of the Calendar Application accomplishes the following: official registration of facilities and inclusion on the master calendar.
4. Please note that the registration of a social event requires the signature of an adviser.
5. The deadline for registering a social event will be 4 days prior to the event, although organizations are urged to complete this registration earlier.
6. Cancellation of functions and facilities is equally important and should always be made through the Student Affairs Office.

#### **B. Faculty Guests and Security**

1. Student organizations are urged to invite faculty guests to activities sponsored by the organization. Extending an invitation well in advance of the function is a mark of thoughtfulness and courtesy.
2. One security officer is required at all campus dances whether the dance is invitational and for one organization only or whether the dance is an "all school" (MSU students only) dance.
3. On-campus dances open to non-students, two security officers are required; 1st hour — one officer; 2nd hour until close of dance — two officers; and from close of dance until band leaves — one officer.
4. One adviser of the sponsoring organization is required at all on-campus dances.

#### **C. Expenses**

To aid in budgeting for social events when security officers are required for on-campus dances, the cost per hour for each officer can be determined from the MSU Police Office.

#### **D. Dress and Conduct**

1. Those attending student activities are requested to use good judgment about their dress, exercising good taste at all times.
2. Conduct at student activities shall be the responsibility of the sponsoring group.

#### **E. Beverages**

Alcoholic beverages are not allowed at on-campus activities except those social functions specifically approved for serving alcohol by the Student Affairs Office.

#### **F. General**

1. Sponsoring organizations are invited to discuss plans for student activities with the staff in the Student Affairs Office.
2. Attendance at events sponsored by Midwestern State University students is restricted to Midwestern students, faculty, staff, and guests of the sponsoring organization unless other groups are approved by the Student Affairs Office.

## **STUDENT DEVELOPMENTAL PROGRAMS**

A wide variety of programs planned through the Dean of Students' Office in conjunction with student groups are designed to appeal to special interest groups and to foster student development in the personal, social and spiritual realms. Annual recurring functions include the Artist-Lecture Series which features outstanding artists and speakers and the Student Leadership Conference, a forum planned for leaders among students, faculty and administration. Other programs have included a Parliamentary Procedure Workshop, forums on drugs, a Conference on Moral Responsibility and Ethical Response, Study Skills Forum, and Values Clarification Seminar, Transactional Analysis Workshop, and Life Planning Seminars. Group counseling, continuing orientation, and a variety of small group discussions open to all students but especially planned for new students are offered in the Residence Hall Programs (see STUDENT HOUSING — Counseling and Developmental Programs).

## **LEADERSHIP DEVELOPMENT SCHOLARSHIPS**

Midwestern State University through the Office of Student Affairs offers a number of Leadership Development Scholarships. Financial designation of the scholarships will range between \$150 and \$200 a semester and are awarded to students who have demonstrated outstanding academic and leadership potential as determined by an interviewing committee. Preference is given to freshmen and to students who plan to live in the residence hall, but any full-time MSU student who has demonstrated outstanding academic and leadership potential will be considered. For further information contact the Dean of Students in the Office of Student Affairs.

## **FINANCIAL AID**

Financial assistance for students is coordinated through the office of the Director of Financial Aid. For information concerning loans, scholarships, grants-in-aid, and part-time employment see page 44.

## **FOREIGN STUDENT ADVISEMENT**

The Office of Student Affairs, through the Assistant Dean of Students, serves as the Foreign Student Adviser. Advisement includes administration of immigration requirements, assisting with housing arrangements, and general counseling of foreign students. Additional information concerning foreign students may be found under Admissions and Registration sections.

## **HEALTH SERVICE**

The ultimate objective of any Student Health Service is to maintain a state of optimum health, both physical and emotional. The university seeks to curtail student illnesses by discovering problems early and through preventive health instruction.

### **A. Physical Examination:**

1. Each student entering Midwestern State University for the first time is



required to have a physical examination at the time of initial enrollment. This required physical examination report completed by a legally qualified physician must be on file with the university nurse prior to the student entering the registration area. Summer transient students are exempt while maintaining such "special" status, but not upon becoming a regular student. The medical record is subject to review after six years of continuous attendance or an interruption of attendance for one calendar year.

2. A service discharge physical is acceptable if received within the past 12 months and a copy filed with the university nurse.
3. Armed forces officer personnel may utilize their yearly service physical provided a copy is filed with the university nurse.
4. The university examination form must be used for the examination except as outlined in 2 and 3 above.
5. The physical examination must include medical proof of the following:
  - a. Chest X-ray or negative skin test within 12 months.
  - b. Required Immunizations
    - (1) Diphtheria-Tetanus Toxoid (within 10 years)
    - (2) Oral Poliomyelitis (Basic series of all three types since 1963, and at least one booster.)
    - (3) History of measles (Rubeola) or active immunization since 1965.
  - c. Small Pox vaccination is not required, but is strongly recommended.
6. In those cases where the student's physician requests an excuse from physical activity or ROTC, the physician may use the regular health form and elaborate on the reasons for the excuse. This request for excuse must be filed with the university nurse each year.
7. Students are urged to have their physical examination made by their family physician since he often has valuable health information which should be a part of their record and is not available from any other source.

#### **B. Services Available:**

1. Routine medicines not to exceed \$10.00 per regular semester and \$3.00 per summer term for student illnesses.
2. Physician's services during the sick call period of one and one-half hours each school day, Monday through Friday, during the fall and spring semesters.
3. A maximum of three emergency calls per semester.
4. At the discretion of the university physician, a student may be referred for professional consultation. The usual and customary consultant's charges up to a maximum allowable of \$25 dollars, will be paid from Health Service funds upon presentation of a statement of charges. Such referral (office call) is limited to one consultation per calendar year per individual student.
5. Confinement to the infirmary is limited to three days for any one illness, beyond which a charge of \$5.00 per day will be in effect.
6. Infirmary is closed when school is not in session.

7. Students are responsible for medical expenses which are not provided for as indicated above. Specifically, such personal responsibility extends to charges in excess of the allowable as enumerated in provisions 1 and 4 above.

## INTRAMURAL ACTIVITIES

Midwestern State University sponsors an extensive intramural sports program through the Department of Health, Physical Education and Recreation. Activities are provided for both men and women. Competition is held in archery, badminton, basketball, basketball free throw, bowling, flag football, golf, foosball, pool, softball, swimming, table tennis, track, volleyball, and weight lifting. Other activities may be scheduled by the Intramural Council.

## PLACEMENT

A placement service is maintained through the Office of Testing, Career Counseling and Placement to offer students and alumni information concerning job opportunities as well as contacts with prospective employers. The office serves as a general clearinghouse for registrants seeking employment and for employers seeking college-trained personnel.

Senior and alumni placement registration is voluntary, but encouraged for all seniors and graduate students. Services include: contacts with employers through on-campus interviews and direct referrals; individual counseling; maintenance of a permanent file on each registrant; and availability of information on companies and organizations which frequently hire college graduates. Interested students should contact the Office of Testing, Career Counseling and Placement in room 101 of the Clark Student Center.

## PUBLICATIONS

**The Wichitan** is a weekly newspaper which records the activities and reflects the spirit of the university. The publication seeks to present announcements of the coming events, to report the news of happenings in the different phases of university activity, to furnish students and teachers a democratic medium of expression on university problems, and to afford an opportunity for students of journalism to test their talents.

**The Wai-kun** is Midwestern State University's yearbook. It is a pictorial record of the college year including extra-curricular as well as academic pursuits. It includes pages and sections for the academic areas, student activities and organizations, and class pictures.

**Voices** is the campus magazine. It provides a vehicle for the ideas, opinions, and creative efforts of the total university community.

## STUDENT GOVERNMENT

The chief student governing body of the university is the Student Senate. Senators are elected from the four undergraduate schools, the graduate

school, and each university recognized student organization having a minimum of 30 members. The Student Senate is recognized as one of the most significant organizations on campus.

## STUDENT HOUSING

### A. Counseling and Developmental Programs

Residence Halls are a vital part of the total Midwestern campus community and are intended to implement the educational purposes of the university through providing an atmosphere conducive to meeting the academic, social and personal needs of students.

Individual and group counseling, along with small group discussions, are planned to enhance the living-learning concept in the residence halls. In addition to the counseling available from the Dean of Students and Assistant Dean of Students, a student counselor on each floor will provide valuable tips on college life from the upperclass student's point of view. The residence director is also available to answer questions and to counsel with students. While these programs are available to all students in the residence hall, they are especially designed to assist the student in making adjustment to college life.

### B. Housing Policy

All students enrolling in Midwestern State University are required to live in university housing as long as space is available, unless:

1. Living with parents, legal guardian or spouse;
2. Has accumulated 60 semester hours of credit;
3. Part-time student enrolled in six hours or less long semester; three hours or less summer term; or
4. Enrolled for evening courses only.

To request an exception to the above stated housing policy, a request form must be filed with the Student Affairs Office prior to completing registration. To avoid a delay in registration it is recommended that the request for an exception be filed at least two weeks prior to the beginning of the semester or term of enrollment. The student will be advised of action taken on a request for an exception by the Dean of Students or Assistant Dean of Students.

### C. Residence Halls

Residence halls include Killingsworth with capacity for 306 women and Pierce with capacity for 150 men. Both are air-conditioned and designed for two students per room. Students may arrange for a private room if space is available, by paying an additional charge over and above the regular rate. All residence halls have adequate lounge facilities. Each hall is under the supervision of a full-time director who is assisted by student counselors.

### D. Residence Hall Reservations and Room Deposit

Residence Hall reservations will be made in the Student Affairs Office. A check in the amount of \$40.00 payable to Midwestern State University, must accompany the reservation request. Details concerning this deposit and its

refund may be found in the Financial Information section, page 41. The \$40.00 deposit will be forfeited if notice of cancellation of reservation is not received by Aug. 1 (fall semester), Dec. 15 (spring semester), May 15 (first summer term), and June 30 (second summer term) or if the semester is not completed. This also includes all applications received after the cancellation dates. Students who do not reenroll for the spring semester may have the deposit refunded up to three days before registration.

#### **E. Meal Plans**

All students living in the residence halls are required to eat some of their meals in the university cafeteria.

There are two meal plans available:

1. Ten meals per week (mandatory)
2. Fifteen meals per week (optional)

Information concerning room and board rates, payment plans, and refund policies may be found in the Financial Information section, page 41.

## **STUDENT ORGANIZATIONS**

While all university recognized student organizations have faculty advisement, general coordination and supervision of Midwestern State University's student organizations are functions of Student Affairs through the office of the Dean of Students. Information regarding present status of all groups, their current officers and membership requirements may be obtained in the Assistant Dean of Students' office.

#### **A. Policies Relating to Student Organizations**

In order to be in good standing with the university, student organizations will need to fulfill the requirements listed below:

1. Each student organization must complete the Student Organization Roster by May 15 for the fall semester and Feb. 15 for the spring semester. Rosters need only show name, address, and telephone number of the adviser and officers. Number of active members should be indicated in order to determine Student Senate representatives. This information should be kept current in the Office of Student Affairs.
2. Each student organization must have campus-related sponsorship; i.e., faculty or staff adviser unless special arrangements are made through the Student Affairs Office. Selection of adviser will be made by the organization.
3. All activities whether held on or off campus must conform to university social regulations. Failure of an organization to conform to university policies will result in disciplinary action and could result in suspension.
4. Each student organization must have either a constitution or a statement of purpose on file in the Office of Student Affairs. The statement of purpose must outline membership selection procedure.
5. Brief orientation sessions with organization presidents will be conducted at the beginning of the fall semester by the Dean of Students and the Assistant Dean of Students. For the convenience of the presi-



dents, a series of meetings will be scheduled, and each president will be expected to attend one of the meetings.

6. An evaluation of each organization will be conducted annually near the close of the spring semester through the Office of Student Affairs.
7. Each president of an organization in good standing is a member of the Council of Presidents and will be expected to represent his or her group at the meetings of this Council.
8. Student Senate representatives are allocated according to student organizational membership as shown on the Spring Roster.

#### **B. Procedure for Establishing a New Organization**

1. The Student Organization Roster is submitted to the Office of Student Affairs. The roster lists the number of proposed members, and the names of officers and advisers. In addition to the roster, a constitution or statement of purpose is to be included.
2. If the organization has national affiliation, information listed in 1. above, must include information from the national office. (Constitution, bylaws and financial as well as supervisory relationship with local chapter.)
3. When preliminary information listed above is obtained, final approval of the national organization must be made by the University Administrative Council.
4. Final approval for local organization will be made by a committee comprised of the Vice President for Student Affairs, the Dean of Students and the Assistant Dean of Students.
5. After university approval of the organization, the president of the new organization is eligible for membership in the Council of Presidents.

#### **C. Eligibility to Hold Office in a Student Organization:**

1. Officers of each organization must have a 2.0 cumulative grade average preceding election to the office and must maintain this average while in office.
2. An officer must not be on probation.

### **GOVERNING COUNCILS**

**Council of Presidents** is organized to provide a media for the discussion of issues and problems relating to the several campus organizations and to Midwestern State University student body at large. The council is comprised of the presidents of all recognized campus organizations.

**Interfraternity Council** is an interfraternity group composed of delegates from each chapter, governing men's national social fraternities.

**Panhellenic Council** is an interfraternity group governing women's national social fraternities on campus, associated also with National Panhellenic.

**Residence Hall Student Government** plans student activities and special programs and is composed of elected officers in the residence halls. Meetings between student officers and the Residence Hall Council provide means for student participation in important decisions affecting life in the "dorms."

**Student Senate.** All student legislative power is vested in the Student Senate. Composed of students representing student organizations and the various schools of the University, the Senate is apportioned every fall during registration according to the number of students in the respective areas. The vice president of the student body presides over the Senate meetings.

## DEPARTMENTAL ORGANIZATIONS

**Art Club** is organized to bring the art students together and to promote an interest in art on campus and to encourage an understanding between art students and students in other fields of study.

**Association for Childhood Education** was formed for future teachers to create interest in the education of children. It is open to any prospective teacher.

**Biology Club** was formed to promote an interest in biological sciences among the scientific majors and minors. Open to all students.

**Collegiate Physical Education and Recreation Club** is a professional and social organization for men and women physical education majors and minors.

**English Club (For Madmen Only)** membership is open to all English majors. This club sponsors programs, discussions and forums in broad areas of literature, and literary criticism featuring the latest works of contemporary authors and poets.

**Future Business Teachers Association** was formed with the objective of stimulating interest and goodwill toward the field of teacher education in business and of promoting professional attitudes and skills within the business classroom. Open to all persons interested in business education.

**Midwestern State University Aquatic Club** is to promote a continued interest in aquatic competition for men and women students who have had previous experience in AAU or high school swimming or diving programs.

**Midwestern State University Chapter of American Chemical Society Student Affiliates** seeks to further knowledge in the field of chemistry and to promote scholarship among students of chemistry.

**Midwestern State University Chapter of the Junior American Dental Hygienists Association** was established to cultivate, promote, and sustain the art and science of dental hygiene, to foster and protect the common interest of the dental hygiene profession, and to contribute toward the improvement of the health of the public.

**Midwestern State University Chapter of the Society of Physics Students** is to encourage and assist student physicists to develop the knowledge, competence, enthusiasm and social responsibility that are essential to the advancement of physics.

**Midwestern State University Choir** is a select group representing a cross-section of students from all departments on campus. The choir tours nationally or internationally each year plus performing many times throughout the year. Members are selected through audition with the director.

**Midwestern State University Criminal Justice Club** (formerly Law Enforcement) was formed to increase knowledge of the criminal justice system. It is open to all students expressing positive interest in criminal justice.

**Midwestern State University Data Processing Organization** is open to students and faculty who are seriously interested in data processing as a profession. The group promotes understanding of the nature and function of data processing, its technical method and equipment, and the relationship between management and data processing.

**Midwestern State University French Club** was formed for the purpose of stimulating interest in studying the French language and culture. Any student interested in this area is eligible for membership.

**Midwestern State University Medical Technology Club** was formed to present programs and activities enabling the student to come in contact with professional people and to learn about requirements, duties, and rewards of a career in medical technology. It is open to all pre-medical technicians and technology students.

**Midwestern State University Secretarial Association** is open to those interested in going into the secretarial field. Members are urged to take the Certified Public Secretary Exam (C.P.S.) and to continue their education after graduation or after entering into the business world.

**Midwestern State University Speech and Hearing Association** is a local organization whose purpose is to encourage professional interest among college and university students in the study of normal and disordered human communication behavior, provide continuity in the dissemination of professional information, and to provide a vehicle for student representation in matters of professional concern.

**Midwestern State University Student Nursing Association of TNSA** is an organization dedicated to promote professional nursing in the community, to stimulate professional growth in nursing, and to assist pre-nursing students in maintaining interest in professional nursing. Membership is open to all nursing and pre-nursing students.

**Midwestern State University Theatre** provides a laboratory for students in drama and for students who may not be enrolled in drama courses. The theatre also furnishes a balanced entertainment in theatre for the campus throughout the year. Membership is open to all students.

**Music Educators' National Conference** affords to students the opportunity for professional orientation and development while still in school.

**Phi Chi Theta** is a national sorority for students majoring and minoring in business. It was organized to promote the cause of business careers and to be of service in the School of Business Administration at Midwestern State University.

**Pre-Law Club** is open to all students interested in this academic area and has as its purpose the bringing together of students with common career interests for exchange of ideas and fellowship. Its particular contribution is in bringing speakers and programs to the Midwestern State University campus which would be of special interest to students preparing for careers in law and fields related to law.

**Pre-Medical Careers Club** is open to all pre-med, medical technology, and pre-dental students. The club will present beneficial programs and activities which will enable the students to come in contact with a variety of professional people and to learn more about the requirements, duties and rewards of a medical career.

**Sociology Club** is dedicated to advancing the science of sociology and encouraging and stimulating scholarship in this area. Membership is open to men and women who will make the study of sociology one of their major interests. Membership is open to students and faculty.

**Texas Student Education Association** is comprised of prospective teachers. This club was formed to aid future teachers in developing professional attitudes and interests. It is open to students of the Education Department.

**University Chorale** is comprised of non-professional musicians interested in singing. Membership is open to all students.

## RELIGIOUS ORGANIZATIONS

**Baptist Student Union** was formed to strengthen and encourage religious fellowship. Comprised mainly of university students belonging to the Baptist faith, students of all religious affiliations are welcome to participate in BSU activities.

**Church of Christ Bible Chair** was formed to build Christian character, to provide for Christian fellowship, and to inspire its members that they may so live as to be of service to the community and to Midwestern State University.

**Navigators** (non-denominational) is an international Christian organization, the aim of which is to make a permanent difference in the lives of people all around the world.

**Newman Club** was organized for Catholic students who wish to join in Christian fellowship.

**Religious Forum** is comprised of delegates from all religious faiths on campus sponsoring a Midwestern State University student organization. Its purpose is to provide a forum for discussion of mutual concerns and to sponsor projects, activities and speakers deemed significant by the Forum.

**Wesley Foundation** was formed for the purpose of developing character, encouraging spiritual growth, and cultivating Christian fellowship among Methodist students. It is open to all students.

## SCHOLASTIC AND HONORARY ORGANIZATIONS

**Alpha Chi** is a national senior college honorary scholastic society. Membership is limited to regular undergraduate students of the junior and senior classes and shall not exceed the upper tenth of the graduating class as determined by the entire record of such students in the electing institution.

**Alpha Lambda Delta** is a national honorary society for freshman students (historically women) and is dedicated to the promotion of intelligent living, a high standard of learning, and the encouragement of superior scholastic attainment among students with a GPA of 3.5 in their first year of college.



**Alpha Phi Sigma** is an honor society dedicated to the purpose of recognition and promotion of high scholarship among those students actively engaged in collegiate preparation for professional service in criminal justice, primarily police service.

**Alpha Psi Omega** is a national fraternity in theatre. It offers membership to students who have met certain criteria in the arts of the theatre.

**Beta Beta Beta** is an honorary society for students of biological sciences. It seeks to encourage scholarly attainment in this field of learning.

**Cap and Gown** is an honorary scholastic organization open to senior students who have achieved a GPA of 3.0. The organization is patterned after Mortar Board with which it plans to become affiliated. Each spring no fewer than five and no more than 15 seniors are "tapped" for Cap and Gown.

**Gamma Sigma Epsilon** is a national fraternity in chemistry whose purpose is to increase interest in scholarship in chemistry, to promote friendship and general welfare of the chemist. Membership is open to students studying chemistry in an institution of higher learning.

**Kappa Delta Pi**, Beta Chapter, is a national honorary scholastic society in education which is open, without regard to sex or race, to undergraduates, graduates and alumni on an elective basis. Membership qualifications include upper levels of scholarship, exemplary qualities of character, leadership attributes and high educational ideas.

**Kappa Kappa Psi** is a national honor fraternity for college band members whose purpose is to promote respect for the activities and achievements of college and university bands.

**Mu Phi Epsilon** is a national, professional sorority having as its purpose the advancement of music in America. It is open to music majors and minors.

**Phi Alpha Theta** is an international honor society in history. It is a professional society whose purpose is the promotion of the study of history by encouraging research, good teaching, publication and exchange of learning and thought among historians. Membership is open to history students of high academic achievement.

**Phi Eta Sigma** was formed to encourage and reward scholarship among freshmen students. Membership is open to second semester freshmen (historically men) with a grade point average of 3.5.

**Phi Mu Alpha Sinfonia** is a national music organization established for the purpose of advancing the mutual welfare and brotherhood of students of music. Membership is not restricted to music majors and minors.

**Pi Kappa Delta** is an honorary fraternity for intercollegiate debaters and forensic speakers and for instructors in these areas. Its purpose is to stimulate interest in intercollegiate speech activities and to promote scholarship in the field of forensic speaking in senior American colleges and universities.

**Psi Chi** is a national organization formed to advance the science of psychology; and to encourage, stimulate, and maintain scholarship of the individual members in all fields, particularly in psychology. Membership is open to psychology majors with a grade point average of 3.2 in psychology and the maintenance of a 2.7 grade point average overall.

**Tau Beta Sigma** is a national sorority for college band members. Students in the university band with a 2.5 academic average are eligible for membership.

## SERVICE ORGANIZATIONS

**Campus Girl Scouts** is an extension of the Girl Scouts of the U.S.A. and is certified by the North Central Texas Girl Scout Council. Its primary purpose is to give college students a chance to actively participate in this area.

**Circle K International** was formed at Midwestern to focalize volunteer service to the college community and campus. It is sponsored by the University Kiwanis Club of Wichita Falls. This organization unites the college student and the businessman in a humanitarian service to their respective communities.

**Midwestern State University Cheerleaders** are selected representatives of the university student body who endeavor to promote high spirit and support of MSU athletic teams.

**Student Union Board** is responsible for planning and coordinating activities in the Student Center. The SUB functions through various committees, including those on art, dance, film, publicity and recreation.

**Trailblazers** is an organization whose purpose is to aid in promoting school spirit in an organized manner by working in conjunction with the Midwestern State University Cheerleaders and other supporters of athletic functions. Members are selected through screening of all interested students by the organization president and MSU Cheerleaders.

## GREEK ORGANIZATIONS

### SORORITIES

**Alphi Phi.** The Gamma Omega Chapter of Alpha Phi International Fraternity was installed on December 5, 1960. Founded in October, 1872, at Syracuse University, New York, it has been international since 1906.

**Chi Omega.** The Omicron Theta Chapter of Chi Omega National Sorority was founded on April 5, 1895, at the University of Arkansas. The newest sorority on the Midwestern State University campus, it was installed October 1, 1966.

**Gamma Phi Beta.** The Gamma Phi Beta International Sorority was founded on November 11, 1874, at Syracuse University. Its 84 active chapters and over 150 alumnae chapters may be found in Alaska, Hawaii, Canada, and on the United States Mainland.

**Gamma Tau Chapter of Sigma Kappa** was first sorority installed on the MSU campus on May 23, 1959. Founded at Colby College, Maine on Nov. 9, 1874, Sigma Kappa has since grown to over 100 active chapters and 200 alumnae chapters.

### FRATERNITIES

**Gamma Omega Chapter of Kappa Alpha Order** began at MSU on March 6, 1964. It was founded nationally Dec. 21, 1865 at Washington College (now Washington and Lee University) at Lexington, Va. It was at that time the Order

of Christian Knights with the highest ideals of character and achievement, began the cultivation of virtues and graces which make a man eminent in character.

**Kappa Sigma** is a social fraternity dedicated to high ideals of scholarship and brotherhood. Organized on Nov. 21, 1959 by John Tower, it became the first national fraternity at MSU and joined more than 170 chapters of Kappa Sigma in the United States and Canada. The Theta Gamma Chapter of Kappa Sigma at MSU actively participates in intramural sports and currently holds the scholarship trophy with a fraternity grade point average well above the all-men's average at MSU.

**Phi Sigma Kappa** is currently the fastest growing fraternity on the MSU campus and was founded March 15, 1873 at the University of Massachusetts. Sigma Tetarton was founded as the second fraternity on MSU campus May 14, 1960. The Phi Sigs have played a leading role in campus and fraternity life since then.

**Sigma Nu** is a leading national fraternity which was founded in 1869 at V.M.I. The MSU chapter was originally Chi Eta, a local fraternity, and became nationally chartered in 1965. Sigma Nu has 199 installations throughout the country. Love, honor, and truth are the main ideals of Sigma Nu.

**Tau Kappa Epsilon** is an international fraternity founded in 1899 and was chartered at MSU Feb. 22, 1969. TKE is the largest fraternity with over 300 chapters in 45 states and two Canadian provinces. Above all else, TKE stands for MEN... not for wealth, rank, or honor, but for personal worth and character.

## SPECIAL INTEREST ORGANIZATIONS

**Midwestern State University Chess Club** was organized to stimulate an interest in chess. Open to all students.

**Midwestern State University Rodeo Club** was re-established in the fall of 1975 and has achieved intercollegiate recognition through competition and sponsorship of its own annual rodeo. The club offers scholarships to outstanding competitors.

**Midwestern State University Science Fiction Club** is an organization whose purpose is to read, discuss, and to probe the nature and history of science fiction and to encourage these activities in the general public.

**Students International Meditation Society (SIMS)** is open for membership to all students and faculty for the purpose of studying the principles and practice of transcendental meditation thereby enabling every member to expand his conscious mind, unfold and develop his mental abilities and creative intelligence in order that he may make full use of his mental potential in all fields of thought and action.

**Young Democrats** is organized to carry on the principles and traditions of the National Democratic party. Prospective members of this organization shall be officially enrolled in Midwestern State University and shall not have exceeded 35 years of age.

**Young Republicans** serves the purpose of encouraging all students of MSU to have civic interest in local, state and national governments; it aids and encourages the development of the Republican Party in Texas.

## FAMILY EDUCATION RIGHTS AND PRIVACY ACT OF 1974

In compliance with Public Law 93-380 Education Amendments of 1974, the following information is provided concerning student records maintained by Midwestern State University:

**Areas in which student records are maintained:**

1. Academic Records  
Registrar's Office; Graduate Office; schools, department and faculty offices; Continuing Education Office; faculty adviser
2. Student Affairs Records  
Student Affairs Office; Placement and Testing Office; Student Health Office; Student Government Office
3. Financial Records  
Business Office; Financial Aid Office
4. Public Information Office

**General Information.** This is information which may be released to the general public without the written consent of the student. A student may request that all or any part of the General Information be withheld from the public by making written request to the Registrar's Office during the first 12 class days of a fall or spring semester, or the first four class days of a summer term. This request will apply only to the current enrollment period. The following is to be included as General Information:

name; date and place of birth; current and permanent address; telephone listing; major and minor; current class schedule; number of hours enrolled in current semester; classification; marital status; participation in officially recognized activities and sports; weight and height of members of athletic teams; dates of attendance; degrees and awards received; all previous educational agencies or institutions attended.

**Review of Record.** Any student who desires to review his/her record may do so upon request of the appropriate office immediately responsible for the record and completion of the Review Request form.

**Challenge to Accuracy of Record-keeping.** Any student who desires to challenge the accuracy of his/her record should follow the procedure outlined below:

**Informal Review.** Follow the procedure as outlined for *Review of Record*. Official will summarize action taken on Review Request form. This should be signed and dated by review official and maintained with student's record.

**Formal Review.** If the Informal Review does not clarify the question of accuracy of record-keeping, the student may request a Formal Review. The Vice-President for Academic Affairs will chair and appoint a committee to hear challenges concerning academic records. The Vice-President for Student Affairs will chair and appoint a committee to hear challenges concerning non-academic records.



## **Special Academic Programs**

**Accelerated Music Program**

**Continuing Education Program**

**Honors Program**

**InterInstitutional Programs**

**Military Science Program**

**Technical and Occupational Programs**



# Special Academic Programs

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## ACCELERATED MUSIC PROGRAM

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Students interested in an accelerated program in music beginning between the junior and senior years in high school should see the complete description in the Department of Music section of this catalog.

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## CONTINUING EDUCATION PROGRAM

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The Continuing Education Program at Midwestern State University is directed through the Division of Continuing Education as follows:

### DIVISION OF CONTINUING EDUCATION

**Robert McBroom, Director**  
Hardin Administration 103, South

Continuing education is a community oriented service. In addition to a wide spectrum of non-credit courses to fulfill the adult continuing educational needs, special courses may be arranged to accommodate needs of businesses, professional and community groups.

Programming may be flexible and scheduled to fit the particular goal to be attained. The format may be set up as a seminar, forum, discussion group, conference or class and may be arranged for one day, a semester or on an annual basis. The university reserves the right to substitute speakers or instructors if unavoidable circumstances make it necessary.

### Registration and Tuition Policies

**Please Pre-register.** Schedules for fall, spring, and summer classes are printed regularly and will be mailed upon request. Schedules include general information, course descriptions and tuition fees for each course. Preregistrations are preferred; however, we do meet to register before the first session of any given class, beginning 30 minutes prior to class time.

Enrollment for MSU Continuing Education Courses is accepted by mail or in person. To enroll by mail, send name, address, and check (payable to Midwestern State University) to Division of Continuing Education, Midwestern State University, Wichita Falls, Texas 76308. Please note the course or courses for which you are registering. To enroll in person, come to Hardin Administration Building, South, Room 103, on the MSU campus.

Telephone calls are considered "tentative registration" pending receipt of check or money order. In classes for a limited number of persons, registration accompanied by checks or money orders take precedent.

### Refunds

If a course fails to materialize, a full refund will be made to the enrollee, and the university reserves the right to discontinue any class for which en-

rollment is not sufficient to justify the offering.

90% refund of tuition will be made if an enrollee drops a class for any reason after registering but before the first class meeting.

50% refund will be made if withdrawal occurs before the third meeting of a class.

No refund will be made after the third meeting of a class.

### Important Information on Parking

Ample space in non-reserved parking is available on campus. HOWEVER, state regulations require all cars parking on campus to be registered. This may be done by going by the University Security Office and paying a \$2.00 parking fee (hours: 7:00 a.m.-5:00 p.m.). **IF YOU DO NOT WISH TO PARK ON CAMPUS**, there is space along Taft directly in front of Hardin Administration Building, on the church parking lots across the street from the university, and on Hampstead and Milby Streets north of the campus after 3:00 p.m.

No matter what one's personal reasons may be, we wish to encourage involvement in life-long educational experiences. To paraphrase the Carnegie Commission on Higher Education: Education is a **lifelong process** — one never **loses** the ability to learn.

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## HONORS PROGRAM

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The Honors Program of Midwestern State University, begun in the fall of 1964, has aided numerous highly able scholars to complete baccalaureate programs offering greater challenges and satisfaction than the university can assure the average student.

Each of the approximately 20 freshmen who enter the Honors Program each fall is assured a scholarship of \$150 per semester. Admission to the program is by invitation based on ACT or SAT scores.

The program consists of the following courses designed for the group:

- 1133.H Fundamentals of Speech Communication
- 3002.H Bibliography and Research (Library Research)
- 1233.H Cultural Anthropology
- 1633.H Calculus and Analytical Geometry
- 1333.H General Economics
- 2003.H Humanities
- 2013.H Humanities
- 3433.H Philosophy of Religion (Philosophy)
- 4003.H Science and Society (History)
- 4001.H, 4002.H, 4003.H Tutorials

Each student in the program must take at least one of the three honors courses scheduled from the above list each semester. Students take tutorials during his last two semesters before graduating and the number of hours of credit are determined by the student and his major department chairman. Tutorials involve research and written findings.

The faculty who work with the honors sections are specially selected and may add to the honors courses students of comparable ability who are not in the program, subject to approval of the Honors Program Committee.



Students must maintain a minimum GPA of 3.0 each semester. Probation may be granted for a drop below this GPA for one semester provided his cumulative GPA is above 3.0, and this allows the student to remain in the program without the benefit of scholarship. Full reinstatement is achieved by returning the GPA to acceptable level.

For out-of-state participants there is the added advantage of being eligible for in-state tuition. Students interested in participating in this program are urged to contact the Honors Program Committee Chairman through the Vice-President for Academic Affairs' office.

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## INTER-INSTITUTIONAL PROGRAMS

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Courses taught by Midwestern State University faculty members are now being offered at Sheppard Air Force Base. Both airmen and civilian students may register for these courses. For courses offered refer to Schedule of Classes and those courses marked (SAFB).

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## MILITARY SCIENCE PROGRAM

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The Military Science Program provides United States Army Reserve Officers' Training through the Department of Military Science at Midwestern State University consisting of the following:

### DEPARTMENT OF MILITARY SCIENCE

Professor: **Lt. Col. Billy V. Smith, Chairman**

102A Memorial Hall

Assistant Professors: Maj. Wainscott,

Capt. Anderson, Woodard

Instructors: SGM. Long, MSG. Bradley

The purpose of the Military Science Program is to train college students so that they may qualify upon graduation as commissioned officers in the United States Army Reserve or Regular Army.

The program is divided into a basic course (freshman and sophomore years) and an advanced course (junior and senior years). Academic credit is authorized toward graduation for both basic and advanced courses. Basic course students are not under contract, have no haircut regulations, and do not incur any military obligation. Further, freshmen students are not required to wear uniforms.

Military Science students are issued necessary uniforms, equipment, and military textbooks free of charge by the Department of the Army. In addition, advanced course students are paid monthly subsistence allowance of \$100.

The cost to the student is the regular university tuition and fees plus a lab fee of \$8.00 per semester. This fee is utilized to offset expenses incurred in Adventure Training.

**ELIGIBILITY REQUIREMENTS****Basic Course**

**Freshman.** A student may enroll in Military Science 1122 and 1222 provided the student:

1. Is at least 17 years old on the first day of the university's registration;
2. Meets the university's physical examination requirement;
3. Meets the university's admission requirement;
4. Is a citizen of the United States;
5. Is enrolled as a full-time student;
6. Executes the loyalty oath or affirmation;
7. Is approved by the Professor of Military Science

**Sophomore.** A student may enroll in Military Science 2122 and 2222 provided the student:

1. Meets all of the requirements listed for Military Science 1122 and 1222;
2. Has satisfactorily completed Military Science 1122 and 1222 or has constructive credit or has consent of Professor of Military Science;
3. Does not have a record of ineffectiveness in previous military science courses.

A student may take more than one course of Basic Military Science in a semester with consent of the Professor of Military Science.

**Advanced Course**

A student may enroll in Military Science 3133, 3233, 4133 and 4233 provided the student:

1. Is able to meet the academic requirements for graduation and be commissioned prior to his/her 28th birthday;
2. Has satisfactorily completed the basic course, the basic summer camp or has previous active military service;
3. Is physically and morally qualified;
4. Has completed the screening and general survey tests prescribed by Army regulations;
5. Is approved by the Advanced Military Science Selection Board and the President of the University;
6. Is a citizen of the United States.

**General Information**

All advanced course students receive a \$100 monthly subsistence allowance.

A student who has served one or more years on active duty with the United States Armed Forces may enroll in the advanced program as an MS III provided he/she meets the advanced course requirements and has approval of the Professor of Military Science. A veteran advanced course student is entitled to the \$100 monthly subsistence allowance in addition to the normal GI Bill benefits. A veteran who is academically a freshman may enroll in the MS III program and upon completion of the advanced course, be carried as a completion student until graduation.

A scholarship program providing payment of tuition, books, lab expenses, tutor fees, typing fees, other fees and charges, and \$100 per month, is available on a competitive basis. Students may contact the Department of Military Science for information concerning these one through four-year scholarships.

Regular Army Airborne and Ranger Training are available to a select number of junior students who volunteer and are qualified for this training.

A two-year program is offered junior college students and/or academic juniors who did not participate in military science during their first two years of college. A student desiring this program must attend a basic summer camp between the sophomore and junior years to qualify for enrollment in the advanced course. The successful completion of basic camp substitutes for the first two years of military science. Applications for basic camp should be made by April of the student's sophomore year.

A student who has had four or more years of National Defense Cadet Corps training or high school military science training may be given constructive credit for the basic course of military science on approval of the Professor of Military Science.

### **COMMISSIONING REQUIREMENTS**

Students who enroll in the advanced course will be placed under contract and must fulfill the obligations set forth therein and complete all academic requirements for a degree in order to be commissioned. Upon completion of advanced summer camp, the advance course student will be commissioned in a component of the United States Army Reserve. Military science students selected as distinguished military graduates may be offered a commission in the Regular Army. Scholarship students may also receive Regular Army commissions.

## **PHYSICAL EDUCATION/MILITARY SCIENCE REQUIREMENTS**

### **Required Physical Edu- cation Activity**

Students enrolled in Basic Course

- a. Completes one semester of military science ..... 3 courses
- b. Completes two or more semesters of military science ..... 2 courses

Students enrolled in Advance Course

- a. Completes Advance Course in addition to Basic Course ..... none
- b. Students enrolled in 2-year Advanced Course  
program ..... 2 courses

## COURSES IN MILITARY SCIENCE

### 1122. **Military Science** 2 (2-0)\*

History, organization and mission of ROTC and development of military management skills.

### 1222. **Military Science** 2 (2-0)\*

A rifle and pistol marksmanship course using .22 rifles and pistols on the indoor firing range. The Texas Hunter Safety Course is included.

### 2122. **Military Science** 2 (2-2)

Fundamentals of map reading utilizing 1:50,000 topographical maps; basic aerial and photo map interpretation; fundamentals of orienteering utilizing 1:24,000 topographical maps; practical exercises in field environment employing basic map reading and orienteering fundamentals. Leadership lab.

### 2222. **Military Science** 2 (2-2)

American military history and the interrelationship of the principles of combat from the American Revolution to the present. Emergency First Aid training. Leadership lab.

### 3133. **Military Science** 3 (3-2)

The principles of leadership and management and methods of instruction. Career opportunities in the different branches of the Army. Leadership lab.

### 3233. **Military Science** 3 (3-2)

Advanced training in small unit operations to include communication procedures, a review of tactics and map reading, an understanding of the leadership role in direction and coordination of the military team, and preparation for advanced camp. Leadership lab.

### 4133. **Military Science** 3 (3-2)

Advanced military management to include organization and functions of military staffs, logistics management, the military justice system, and obligations and responsibilities of the commissioned officer. Leadership lab.

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\*Leadership lab for the MS I course consists of one eight-hour lab on a Saturday. It includes orienteering, survival, rappelling, slide-for-life, and a helicopter route recon. In addition to the Saturday lab, each student is required to participate in one of the weekend activities listed below.

All students enrolled in military science can participate in the weekend activities. The trips mentioned will not be the same each semester but indicate the type of trips which will be conducted.

Weekend Activities: a canoe trip down the Brazos River; mountaineering trip in the Wichita Mountains; survival, escape and evasion along the Red River; and raft trip along the Rio Grande River around the Big Bend country.



**4233. Military Science**

3 (3-2)

A seminar in management to include an interactive simulation program utilizing modular training designed to aid in teaching management concepts to include management problem analysis and decision-making, planning and organizing, delegation and control, and interpersonal skills required for effective management. Leadership lab.

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**CHEMICAL TECHNOLOGY PROGRAM**


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This program is designed for students desiring direct employment as a chemical technician. (Technical elective by advisement of division director)

**REQUIREMENTS FOR THE ASSOCIATE OF APPLIED SCIENCE DEGREE  
IN CHEMICAL TECHNOLOGY**

| First Summer Term  | Sem. Hrs. | Second Summer Term | Sem. Hrs. |
|--------------------|-----------|--------------------|-----------|
| 1233. Mathematics* | 3         | 1433. Mathematics  | 3         |

**FRESHMAN YEAR**

| Fall Semester           |       | Spring Semester |       |
|-------------------------|-------|-----------------|-------|
| 1142. Chemistry         | 2     | 1242. Chemistry | 2     |
| 1143. Chemistry         | 3     | 1243. Chemistry | 3     |
| 1113. English           | 3     | 1123. English   | 3     |
| 1144. Physics           | 4     | 1244. Physics   | 4     |
| 1333. Political Science | 3     | Elective        | 3-4   |
|                         | <hr/> |                 | <hr/> |
|                         | 15    |                 | 15-16 |

**SOPHOMORE YEAR**

| Fall Semester      |       | Spring Semester         |       |
|--------------------|-------|-------------------------|-------|
| 2302. Chemistry    | 2     | 3502. Chemistry         | 2     |
| 2303. Chemistry    | 3     | 3503. Chemistry         | 3     |
| 3302. Chemistry    | 2     | 3402. Chemistry         | 2     |
| 3303. Chemistry    | 3     | 3403. Chemistry         | 3     |
| Technical elective | 3-4   | 2003. Computing Science |       |
| Elective           | 3     | OR                      |       |
|                    | <hr/> | 1114. Data Processing   | 3-4   |
|                    | 16-17 |                         | <hr/> |
|                    |       |                         | 13-14 |

Total Hours 65-68

Technical electives: Biology 1144, 1344, 1544; Business Administration 1033; Chemistry 4243, 4404; Engineering Drawing 1133; English 2103; Environmental Science 3023; Geology 1133; Statistics 3573

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\*May be obtained by advanced placement if student has two years of high school algebra and/or trigonometry.

ELECTRONICS TECHNOLOGY PROGRAM

This program is designed to provide knowledge and skills necessary to be immediately useful as an electronic technologist. Entrance to the program requires approval of the division director.

REQUIREMENTS FOR THE ASSOCIATE OF APPLIED SCIENCE DEGREE  
IN ELECTRONICS TECHNOLOGY

| First Summer Term  | Sem. Hrs. | Second Summer Term      | Sem. Hrs. |
|--------------------|-----------|-------------------------|-----------|
| 1433. Mathematics* | 3         | 1244. Physics           | 4         |
| 1144. Physics      | 4         | 1333. Political Science | 3         |
|                    | 7         |                         | 7         |

FRESHMAN YEAR

| Fall Semester                |    | Spring Semester              |    |
|------------------------------|----|------------------------------|----|
| 1014. Electronics Technology | 4  | 2003. Computing Science      | 3  |
| 1133. Engineering Drawing    | 3  | 1024. Electronics Technology | 4  |
| 1113. English                | 3  | 1123. English                | 3  |
|                              | 10 |                              | 10 |

| First Summer Term            |   | Second Summer Term           |   |
|------------------------------|---|------------------------------|---|
| 1114. Electronics Technology | 4 | 1124. Electronics Technology | 4 |

SOPHOMORE YEAR

| Fall Semester                |       | Spring Semester              |       |
|------------------------------|-------|------------------------------|-------|
| 1134. Electronics Technology | 4     | 2014. Electronics Technology | 4     |
| 2024. Electronics Technology | 4     | 2034. Electronics Technology | 4     |
| Technical elective           | 3-5   | Technical elective           | 3-5   |
|                              | 11-13 |                              | 11-13 |

Total hours 64-68

Technical electives: Chemistry 1142, 1143, 1242, 1243; Economics 1333; Engineering Drawing 1233, 2133; Mathematics 1633, 1733, and Statistics 3573

\*Students who do not understand and cannot perform basic algebra manipulations should take Mathematics 1233.

**Advanced Placement.** Transfer credit for prior training or outside electronics course work may be earned by satisfactory performance on tests available through the program director. Credit for Mathematics 1233 or 1433 may be earned by satisfactory performance on tests administered by the Department of Mathematical Sciences.

**COURSES IN ELECTRONICS TECHNOLOGY**

- 1014. Basic Circuits I** 4 (2-4)  
Prerequisite: Physics 1244 or consent of chairman.  
D.C. circuits including series and parallel circuits, meters, Kirchhoff's laws, Thevenin's and Norton's theorems. Properties of capacitors, inductors and transformers. Laboratory fee: \$5.00.
- 1024. Basic Circuits II** 4 (2-4)  
Prerequisite: Electronics 1014.  
RCL circuits, bridges, wattmeters, motors and generators. Laboratory fee: \$5.00.
- 1114. Network Theory** 4 (2-4)  
Prerequisite: Electronics 1024.  
Impedance, admittance, hybrid parameters. Laboratory fee: \$5.00.
- 1124. Introduction to Active Devices** 4 (2-4)  
Prerequisite: Electronics 1114.  
Vacuum tube and semiconductor devices. Characteristic curves, basic amplifier and oscillator circuits. Laboratory fee: \$5.00.
- 1134. Electronic Circuits** 4 (2-4)  
Prerequisite: Electronics 1114.  
Amplifier, oscillator, power and integrated circuits. Laboratory fee: \$5.00.
- 2014. Electronics Measurements** 4 (2-4)  
Prerequisites: Electronics 1124, 1134.  
Description, limitations and use of electronic instruments. Oscilloscopes, recorders, counters, choppers, lock-ins, etc. Discussion of standards. Laboratory fee: \$5.00.
- 2024. Communications** 4 (2-4)  
Prerequisite: Electronics 1114.  
RF circuits, antennas, propagation of EM waves, transmitters and receivers. Laboratory fee: \$5.00.
- 2034. Logic Circuits** 4 (2-4)  
Prerequisites: Electronics 1124, 1134.  
DTL and TTL logic. Laboratory fee: \$5.00.







# **School of Business Administration And Economics**

**Department of Accounting**

**Department of Business and  
Secretarial Administration**

**Department of Economics**



# School of Business Administration and Economics

ROBERT M. HARMEL, JR., *Dean*  
112 Fowler Building

## PROGRAMS OF STUDY

The School of Business Administration and Economics includes the Departments of Accounting, Business and Secretarial Administration, and Economics. Majors and minors are offered by each.

## UNDERGRADUATE DEGREES

The Bachelor of Business Administration degree is offered with majors in accounting, business administration, economics, management science, and secretarial administration.

The Bachelor of Arts or Bachelor of Science degree is offered with a major in economics.

All candidates for a Bachelor's degree must complete requirements for a minor selected from within or outside the School of Business Administration and Economics. Requirements for minors in each area are listed by departments.

Specific requirements for majors and minors in the undergraduate programs are on the following pages under departmental headings. All B.B.A. students must complete the professional business core described.

Students seeking the B.B.A. degree with any major must take a minimum of 48 semester hours outside the School of Business Administration and Economics. Economics 2333, 2433 and 4833 may be counted as part of the 48 hours.

## PROFESSIONAL BUSINESS CORE

Each of the undergraduate programs leading to the B.B.A. degree includes the following core courses:

|            |                            |    |
|------------|----------------------------|----|
| 1114       | Electronic Data Processing | 4  |
| 2144, 2244 | Accounting                 | 8  |
| 2333, 2433 | Economics I, Economics II  | 6  |
| 3233       | Business Law               | 3  |
| 2203       | Statistics                 | 3  |
| 3733       | Corporation Finance        | 3  |
| 3723       | Principles of Marketing    | 3  |
| 3013       | Principles of Management   | 3  |
| Total      |                            | 33 |

Additional requirements for specific majors are listed by departments.

A student must have a minimum of 2.0 grade point average in the professional business core. When core courses are included in major or minor, the grade point average will be calculated for the balance of core courses outside the major and minor.

## GRADUATE STUDY

**Graduate adviser: Charles Ramser**

Curriculum leading to the degree of Master of Business Administration is offered to those completing a baccalaureate program. General requirements for all master's degrees offered by Midwestern are shown on page 301 in the School of Graduate Studies section.

The prospective M.B.A. student should counsel with the dean or the graduate adviser in the School of Business Administration and Economics before initial registration. This counseling will include consideration of leveling work requirements, conditions of admission and specific course recommendations.

Two options are available for the M.B.A. degree. Students may select a 36 hour non-thesis program or a 30 hour program which includes six hours of thesis. Both options require the following courses: Business Administration 5443, 5513, 5613, 5713; Accounting 5213; Economics 5113 or 5143. Graduate adviser may authorize one substitution for one of the required courses where student's previous academic work or specialization justifies.

Elective courses for both options are: Economics 5123, 5133; Business Administration 5313, 5423, 5623, 5813, 6873, 6883, 6891, 6892, 6893. Either Economics 5113 or 5143 may be taken as an elective to complement the choice above under required courses. A limited number of upper-level undergraduate courses from the School of Business Administration and Economics may be approved as elective graduate courses.

### DEPARTMENT OF ACCOUNTING

**F. Robert Madera, Chairman** (221 Fowler Building)

Professor: Madera

Associate Professors: Althaus, Reeder, Tittle

Assistant Professor: Syrus

The Department of Accounting offers a program for the preparation of accounting majors for professional careers in private, public and governmental areas of accounting. In addition functional support in accounting is provided for other B.B.A. and M.B.A. programs in the School of Business Administration and Economics.

### COURSE REQUIREMENTS FOR B.B.A. IN ACCOUNTING

**Major** (29 semester hours)

Accounting 2144, 2244, 3003, 3013, 4003, 4013, 4043, 4073, 4123



**Minor** (18 semester hours)

**Professional Business Core** (25 semester hours not included in major)

**General Requirements** (22 semester hours)

English 1113, 1123

History 1133, 1233

Satisfaction of the requirement for physical education activities and/or  
basic military science.

Political Science 1333, 1433

**Additional General Requirements** (27 semester hours)

|  |   |
|--|---|
| Applied Business Statistics 3213                           | 3 |
| Business Law 3243  | 3 |
| Natural science  | 6 |
| Mathematics 1203, 1213*                                    | 6 |
| Speech 1133  | 3 |
| Electives from School of<br>Humanities and Social Sciences | 6 |

**Electives** to total 124 hours

**REQUIREMENTS FOR A MINOR IN ACCOUNTING** (20 semester hours)

Accounting 2144, 2244, 3003, 3013; and six advanced hours approved by  
the department chairman

\*Or equivalent approved by adviser.

## CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF BUSINESS ADMINISTRATION

### Major in Accounting

#### FRESHMAN YEAR

| First Semester                              | Sem. Hrs. | Second Semester          | Sem. Hrs. |
|---|-----------|--------------------------|-----------|
| 1113. English .....                         | 3         | 1123. English .....      | 3         |
| 1133. History .....                         | 3         | 1233. History .....      | 3         |
| 1114. Electronic Data<br>Processing I ..... | 4         | 1213. Mathematics* ..... | 3         |
| Natural science .....                       | 3         | Natural science .....    | 3         |
| 1203. Mathematics* .....                    | 3         | 1133. Speech .....       | 3         |
| P.E. or ROTC .....                          | 1         | P.E. or ROTC .....       | 1         |
|   | <hr/>     |                          | <hr/>     |
|   | 17        |                          | 16        |

#### SOPHOMORE YEAR

|  |       |  |       |
|--|-------|--|-------|
| Elective from the School of<br>Humanities and Social<br>Sciences ..... | 3     | Elective from the School of<br>Humanities and Social<br>Sciences ..... | 3     |
| 1333. Political Science .....  | 3     | 1433. Political Science .....  | 3     |
| 2144. Accounting .....   | 4     | 2244. Accounting .....   | 4     |
| 2333. Economics I .....  | 3     | 2433. Economics II .....   | 3     |
| 2203. Statistics .....   | 3     | P.E. or ROTC .....   | 1     |
| P.E. or ROTC .....   | 1     | Elective or minor .....  | 3     |
|  | <hr/> |  | <hr/> |
|  | 17    |  | 17    |

JUNIOR YEAR

|                                      |       |                                     |       |
|--------------------------------------|-------|-------------------------------------|-------|
| 3003. Intermediate Accounting .....  | 3     | 3013. Intermediate Accounting ..... | 3     |
| 4003. Cost Accounting .....          | 3     | 4013. Cost Accounting .....         | 3     |
| 3233. Business Law .....             | 3     | 3243. Business Law .....            | 3     |
| 3013. Principles of Management ..... | 3     | 3213. Applied Bus. Statistics ..... | 3     |
| Elective or minor .....              | 3     | Elective or minor .....             | 3     |
|                                      | <hr/> |                                     | <hr/> |
|                                      | 15    |                                     | 15    |

SENIOR YEAR

|                                    |       |                                     |       |
|------------------------------------|-------|-------------------------------------|-------|
| 4043. Principles of Auditing ..... | 3     | 3733. Corporation Finance .....     | 3     |
| 4073. Federal Taxation .....       | 3     | 3723. Principles of Marketing ..... | 3     |
| 4123. Advanced Accounting          |       | Electives .....                     | 6     |
| Theory .....                       | 3     |                                     | <hr/> |
| Elective or minor .....            | 6     |                                     | 12    |
|                                    | <hr/> |                                     |       |
|                                    | 15    |                                     |       |

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\*Or equivalent approved by adviser.

## COURSES IN ACCOUNTING

### 2144. Accounting 4 (3-2)

Prerequisite: Sophomore standing.

Introduction to theory of accounts with the balance sheet approach; the accounting cycle for service-type and merchandising proprietorships.

### 2244. Accounting 4 (3-2)

Prerequisite: Accounting 2144.

Accounting for partnership and corporate forms of business organizations; payroll procedure; voucher system; introduction of special areas such as cost and branch accounting; statement interpretation.

### 3003. Intermediate Accounting 3 (3-0)

Prerequisites: Minimum grade of C in Accounting 2144 and 2244.

Year-end accounting procedures; financial interpretation and analysis; accounting for corporations; an intensive course, combining theory and practical application.

### 3013. Intermediate Accounting 3 (3-0)

Prerequisite: Accounting 3003.

Continuation of Accounting 3003; comprehensive consideration of the theory of accounting for assets, liabilities, and income; fund analysis.

### 3103. Managerial Accounting 3 (3-0)

Prerequisite: Accounting 2244.

Emphasis on managerial uses of accounting data; the analysis and interpretation of financial data; accounting and managerial control; managerial planning through accounting. Designed primarily for non-accounting majors.

### 4003. Cost Accounting 3 (3-0)

Prerequisites: Minimum grade of C in Accounting 2144 and 2244.

Theory and procedures used in determining costs of business operations with emphasis upon manufacturing; accounting for materials, labor and overhead in job-order and process systems.

**4013. Cost Accounting**

3 (3-0)

Prerequisite: Accounting 4003.

Continuation of Accounting 4003; process, estimated, and standard cost procedures; cost analysis and interpretation for manufacturing and non-manufacturing business.

**4033. C.P.A. Problems**

3 (3-0)

Prerequisite: 12 hours of advanced accounting.

Preparation for the theory and practice sections of C.P.A. Examinations; problems selected to develop ability and speed in solving problems given in American Institute of Certified Public Accountants Examinations.

**4043. Principles of Auditing**

3 (3-0)

Prerequisite: Accounting 3013.

Theory, practice and procedure of auditing; internal audit control; auditing standards and principles; working papers and reports.

**4073. Federal Taxation**

3 (3-0)

Prerequisite: Accounting 2244.

Individual and business federal income tax in relation to accounting principles and practices; other federal taxes.

**4083. Federal Taxation**

3 (3-0)

Prerequisite: Accounting 4073.

Partnership, estate, trust, and corporation income taxes and their relation to accounting principles and practices; estate tax, and gift tax.

**4113. Governmental and Nonprofit Entity Accounting**

3 (3-0)

Prerequisite: Six hours of advanced accounting.

Application of accounting principles and systems to budgeting, accounting, and reporting of governmental units and other nonprofit entities.

**4123. Advanced Accounting Theory**

3 (3-0)

Prerequisite: Accounting 3013.

Intensive study of special areas in accounting with emphasis upon partnerships, fiduciaries, and consolidated statements; consideration of accounting procedures involving insurance, installment sales and foreign exchange.

**4883. Special Problems in Accounting**

3 semester hours

Research in a specific area of accounting selected by a student in conjunction with a member of the department faculty. This course is open only to students of high scholastic standing and must have been approved prior to registration.

**5213. Cost Analysis and Control**

3 (3-0)

Management control systems, profit performance, standard and direct costing, investment control and long-range planning.

## DEPARTMENT OF BUSINESS AND SECRETARIAL ADMINISTRATION

**Warren E. Moeller, Chairman** (232 Fowler Building)

Associate Professors: Moeller, Ramser

Assistant Professors: Baker, Campbell, Dowlearn, Foster,

Kreiselmaier, McWhorter, Van Geem

Instructor: Montgomery

Students majoring in Business Administration will meet the general requirements for the B.B.A. degree as well as the additional requirements which are included below. A student has 12 hours of electives from the School of Business Administration and Economics which allow concentration in an area of his choosing.

### COURSE REQUIREMENTS FOR B.B.A. IN BUSINESS ADMINISTRATION

#### **Major** (43 semester hours)

Business Administration 1114, 2203, 3013, 3213, 3223, 3233, 3243, 3723, 3733, 4783 or 4853; plus 12 hours of electives from School of Business Administration and Economics of which nine must be advanced.

#### **Minor** (18 semester hours)

#### **Professional Business Core** (14 semester hours not included in major)

#### **General Requirements** (22 semester hours)

English 1113, 1123

History 1133, 1233

Satisfaction of the requirement for physical education activities and/or basic military science.

Political Science 1333, 1433

#### **Additional General Requirements** (27 semester hours)

|                    |   |
|--------------------|---|
| Advanced economics | 3 |
|--------------------|---|

|                 |   |
|-----------------|---|
| Natural science | 6 |
|-----------------|---|

|  |   |
|--|---|
| Electives from School of Humanities<br>and Social Sciences | 6 |
|--|---|

|                         |   |
|-------------------------|---|
| Mathematics 1203, 1213* | 6 |
|-------------------------|---|

|                         |   |
|-------------------------|---|
| Psychology or sociology | 3 |
|-------------------------|---|

|             |   |
|-------------|---|
| Speech 1133 | 3 |
|-------------|---|

**Electives** to total 124 hours

### COURSE REQUIREMENTS FOR B.B.A. IN MANAGEMENT

#### **Major** (27 semester hours)

Accounting 3103

Business Administration 3013, 3113, 3213, 3223, 4213, 4454 or 4703,  
4653 or 4753, 4853 or 4873

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\*Or equivalent approved by adviser.



**Minor** (18 semester hours)

**Professional Business Core** (30 hours not included in major)

**General Requirements** (22 semester hours)

English 1113, 1123

History 1133, 1233

Satisfaction of the requirement for physical education activities and/or basic military science.

Political Science 1333, 1433

**Additional General Requirements** (27 semester hours)

Advanced economics 3

Natural science 6

Mathematics 1203, 1213 6

Psychology 1103, 4113 6

Sociology 1133 3

Speech 1133 3

## COURSE REQUIREMENTS FOR A B.B.A. IN FINANCE

**Major** (30 semester hours)

Accounting 3103

Business Administration 3213, 3703, 3733, 4653, 4733, 4853; plus six hours from 3733, 3743, 3753, 3763, 4703, 4783

**Minor** (18 semester hours)

**Professional Business Core** (30 hours not included in major)

**General Requirements** (22 semester hours)

English 1113, 1123

History 1133, 1233

Satisfaction of the requirement for physical education activities and/or basic military science.

Political Science 1333, 1433

**Additional General Requirements** (27 semester hours)

Economics 3323 3

Natural science 6

Mathematics 1203, 1213 6

Psychology or sociology 3

Speech 1113 3

Electives from School of Humanities and Social Sciences 6

## REQUIREMENTS FOR MINOR IN BUSINESS ADMINISTRATION (19 semester hours)

Business Administration 1114, 2203, 3013, 3233, 3723, 3733. The upper level courses have accounting and economics as prerequisites.

**CURRICULUM LEADING TO THE DEGREE OF BACHELOR  
OF BUSINESS ADMINISTRATION**

**Major in Business Administration**

**FRESHMAN YEAR**

| <b>First Semester</b>             | <b>Sem. Hrs.</b> | <b>Second Semester</b>   | <b>Sem. Hrs.</b> |
|-----------------------------------|------------------|--------------------------|------------------|
| 1113. English .....               | 3                | 1123. English .....      | 3                |
| 1133. History .....               | 3                | 1233. History .....      | 3                |
| 1114. Elec. Data Processing ..... | 4                | 1213. Mathematics* ..... | 3                |
| Natural science .....             | 3                | Natural science .....    | 3                |
| 1203. Mathematics* .....          | 3                | 1133. Speech .....       | 3                |
| P.E. or ROTC .....                | 1                | P.E. or ROTC .....       | 1                |
|                                   | <hr/>            |                          | <hr/>            |
|                                   | 17               |                          | 16               |

**SOPHOMORE YEAR**

|                               |       |                               |       |
|-------------------------------|-------|-------------------------------|-------|
| 1333. Political Science ..... | 3     | 1433. Political Science ..... | 3     |
| 2144. Accounting .....        | 4     | 2244. Accounting .....        | 4     |
| 2333. Economics I .....       | 3     | 2433. Economics II .....      | 3     |
| Psychology or sociology ..... | 3     | 2203. Statistics .....        | 3     |
| P.E. or ROTC .....            | 1     | P.E. or ROTC .....            | 1     |
| Elective from School of       |       | Elective from School of       |       |
| Humanities & Soc. Sciences .. | 3     | Humanities & Soc. Sciences .. | 3     |
|                               | <hr/> |                               | <hr/> |
|                               | 17    |                               | 17    |

**JUNIOR YEAR**

|                                      |       |  |       |
|--------------------------------------|-------|--|-------|
| 3013. Principles of Management ..... | 3     | 3213. Applied Business Statistics .... | 3     |
| 3733. Corporation Finance .....      | 3     | 3243. Business Law .....               | 3     |
| 3723. Principles of Marketing .....  | 3     | 3223. Business Communications ....     | 3     |
| 3233. Business Law .....             | 3     | Elective .....                         | 3     |
| Adv. Business Elective .....         | 3     | Advanced Elective from School          |       |
|                                      | <hr/> | of Business .....                      | 3     |
|                                      | 15    |  | <hr/> |
|                                      |       |  | 15    |

**SENIOR YEAR**

|                          |       |                               |       |
|--------------------------|-------|-------------------------------|-------|
| Advanced electives from  |       | Adv. Elective from School of  |       |
| School of Business ..... | 6     | Business .....                | 3     |
| Advanced economics       |       | 4853. Business Policies ..... | 3     |
| electives .....          | 3     | Electives .....               | 6     |
| Electives .....          | 6     |                               | <hr/> |
|                          | <hr/> |                               | 12    |
|                          | 15    |                               |       |

\*Or equivalent approved by adviser.  
**Note:** Students must have 1022 Typewriting or equivalent.

**MANAGEMENT SCIENCE PROGRAM**

**Warren E. Moeller, Adviser** (232 Fowler Building)  
Associate Professor: Moeller  
Assistant Professor: Kreiselmaier

**COURSE REQUIREMENTS FOR B.B.A. IN MANAGEMENT SCIENCE**

**Major** (43 semester hours)

Business Administration 1114, 2113, 2203, 3013, 3113, 3213, 3233,  
3723, 3733, 3993, 4103, 4453, 4853, 4863

**Minor** (18 semester hours)

**Professional Business Core** (14 semester hours not included in major)

**General Requirements** (22 semester hours)

English 1113, 1123

History 1133, 1233

Satisfaction of the requirement for physical education activities and/or  
basic military science.

Political Science 1333, 1433

**Additional General Requirements** (27 semester hours)

Accounting 3103 3

Economics 3003 3

Engineering Drawing 1113 3

Natural science 6

Mathematics 6

Electives from School of Humanities  
and Social Sciences 6

**REQUIREMENTS FOR A MINOR IN MANAGEMENT SCIENCE** (19 semester  
hours)

Business Administration 1114, 2113, 3113, 3313, 3993, 4113

### RECOMMENDED MINORS FOR MANAGEMENT SCIENCE MAJORS

**Interdisciplinary** (29 semester hours)

Accounting 2144, 2244, 3103 11

Economics 2333, 2433, 3003 9

Mathematics 9

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29

**Accounting**

3003. Intermediate Accounting 3

3013. Intermediate Accounting 3

4073. Federal Taxation 3

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9

**Economics**

3333. Intermediate Microeconomics 3

3323. Intermediate Macroeconomics 3

4703. Human Resources OR

4743. Government and Business 3

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9

**Mathematics**

2533. Analytic Geometry and Calculus IV 3

3533. Numerical Analysis I 3

3833. Matrix Methods 3

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### CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF BUSINESS ADMINISTRATION

#### Major in Management Science

##### FRESHMAN YEAR

| First Semester                  | Sem. Hrs. | Second Semester                       | Sem. Hrs. |
|---------------------------------|-----------|---------------------------------------|-----------|
| 1113. English .....             | 3         | 1123. English .....                   | 3         |
| 1133. History .....             | 3         | 1233. History .....                   | 3         |
| Mathematics .....               | 3         | Mathematics .....                     | 3         |
| Natural science .....           | 3         | Natural science .....                 | 3         |
| 1133. Engineering Drawing ..... | 3         | 1114. Electronic Data Processing .... | 4         |
| P.E. or ROTC .....              | 1         | P.E. or ROTC .....                    | 1         |
|                                 | 16        |                                       | 17        |

##### SOPHOMORE YEAR

|  |    |  |    |
|--|----|--|----|
| Elective from School of<br>Humanities and Social<br>Sciences ..... | 3  | Elective from School of<br>Humanities and Social<br>Sciences ..... | 3  |
| 1333. Political Science .....                                      | 3  | 1433. Political Science .....                                      | 3  |
| 2144. Accounting .....   | 4  | 2244. Accounting .....   | 4  |
| 2333. Economics I .....  | 3  | 2433. Economics II .....   | 3  |
| 2113. COBOL Programming .....                                      | 3  | 2203. Statistics .....   | 3  |
| P.E. or ROTC .....   | 1  | P.E. or ROTC .....   | 1  |
|  | 17 |  | 17 |

##### JUNIOR YEAR

|  |    |   |    |
|--|----|---|----|
| 3233. Business Law .....                           | 3  | 3213. Applied Statistics .....                | 3  |
| 3013. Principles of Management .....               | 3  | 3993. Quantitative Methods .....              | 3  |
| 3003. Mathematics of Managerial<br>Economics ..... | 3  | 3113. Management Information<br>Systems ..... | 3  |
| 3103. Managerial Accounting* .....                 | 3  | 3733. Corporation Finance .....               | 3  |
| 3723. Principles of Marketing .....                | 3  | Minor .....                                   | 3  |
|  | 15 |   | 15 |

##### SENIOR YEAR

|  |    |  |    |
|--|----|--|----|
| 4103. Quantitative Methods<br>Applications ..... | 3  | 4863. Management Science<br>Research ..... | 3  |
| 4453. Production Management .....                | 3  | 4853. Business Policies OR                 |    |
| Minor .....                                      | 6  | 4783. Entrepreneurship .....               | 3  |
| Elective .....                                   | 3  | Electives .....                            | 6  |
|  | 15 |  | 12 |

\*Two semesters of Cost Accounting may be substituted for this course.

## COURSES IN BUSINESS ADMINISTRATION

Courses in business administration are listed in the following groups: general business courses, finance courses, management courses, marketing courses and statistics courses.



**GENERAL BUSINESS COURSES****1033. Fundamentals of Business Analysis** 3 (3-0)

A general survey of the nature of business, its relationship to society, the significant contributions of the field of business endeavor, and the special aptitudes and skills needed for careers in specialized business fields; designed especially for assisting beginning students in selecting a major program of study.

**1114. Electronic Data Processing** 4 (3-3)

An introduction to the principles of data processing. Study includes unit record equipment, program flow charting, system characteristics and programming languages. The hands-on technique will be used. Fee: \$5.00.

**1733. Personal Finance** 3 (3-0)

See Finance for course description.

**2113. COBOL Programming** 3 (3-0)

Prerequisite: Electronic Data Processing 1114

An introduction to ANSI COBOL Programming with special emphasis on control logic, table handling, and subscripting.

**3223. Business Communications** 3 (3-0)

See Secretarial Administration for course description.

**3233. Business Law** 3 (3-0)

An introduction to the history and structure of the American legal system, and a study of the common law principles of contract, agency, and bailments.

**3243. Business Law** 3 (3-0)

Prerequisite: Business Law 3233 or instructor's consent.

The law of commercial paper, sales, secured transactions, partnerships, corporations, and property, with particular emphasis on the Uniform Commercial Code and the Model Business Corporation Act.

**3313. Topics in Advanced Programming** 3 (3-0)

Prerequisites: Six hours of data processing, Accounting 2244

Topic 1. Advanced COBOL

A study of advanced features of ANSI COBOL emphasizing file sorting, report writing, subroutines, indexed sequential file processing and structural programming.

Topic 2. RPG 11 Programming

A study of features of RPG 11 emphasizing random and indexed sequential file updating, demand files, multiple array processing, and external subroutines.

**3753. General Insurance** 3 (3-0)

Designed to acquaint the student with the general principles of insurance and their application to the business institution; fundamentals of the major types of insurance, including life, casualty, surety, fire, and marine.

**3763. Real Estate** 3 (3-0)

Real estate principles and practices and market forces affecting real estate finance, sales, and brokerage; urban land use and location analysis; the impact of government policies upon the real estate industry.

**3773. Topics in Real Estate**

3 (3-0)

Prerequisite: Real Estate 3763.

**Topic I: Real Estate Finance**

The financing of commercial and residential real estate with emphasis on the principles of mortgage and equity financing. Coverage includes the various sources and instruments involved in the financing process.

**Topic II: Real Estate Appraisal**

A general appraisal of the real estate market; factors affecting the value of land; construction costs per square foot and cubic foot; factors considered in residential and commercial appraisals; demonstrations of residential and commercial appraisals; translation of rental income into present value.

**Topic III: Real Estate Law**

Designed to equip the student with an understanding of legal principles governing real estate transactions, with particular attention to sales contracts, deeds, mortgages, title insurance and Texas community property and home-stead laws.

This course may be repeated for credit with departmental consent when topics vary.

**4683. Public Relations**

3 (3-0)

See journalism section. May be counted as business administration.

**4743. Government and Business**

3 (3-0)

See Economics for course description.

**4843. Management of Small Enterprises**

3 (3-0)

Prerequisite: Consent of instructor.

A managerial consulting course involving the application of principles of management to non-profit and profit-oriented enterprises. Students apply disciplines to which they have concentrated or have practical experience to problems of area organizations.

**4853. Business Policies**

3 (3-0)

Prerequisite: Senior standing in Business Administration.

Formulation of overall as well as subsidiary policies based on the consideration of business objectives. Integrates the various fields of business into the managerial concept of decision making.

**4873. Senior Seminar**

3 (3-0)

Prerequisites: Completion of junior-level core courses and consent of instructor.

Seminar discussions and projects dealing with topics in business administration. May be repeated for credit when topics vary.

**4883. Problems in Economics and Business**

3 semester hours

Prerequisite: Consent of instructor.

Research in a specific area selected by the student in conjunction with a member of the school faculty. This course is open only to students of high scholastic standing and must have been approved prior to registration. May be counted as Economics.

**4993. Business and Economic Research**

3 semester hours

Prerequisite: Consent of instructor.

Discussion of the formulation of research topics, problems of definition and quantification. Conceptual and empirical problems of conducting library and field research. May be counted as Economics.

- 5313. Legal Environment of Business** 3 (3-0)  
 Legal history, jurisprudence, the American and Texas court systems, and selected contemporary legal problems.
- 5423. Seminar in Industrial Management** 3 (3-0)  
 See Management for course description.
- 5433. Management of International Business Operations** 3 (3-0)  
 See Management for course description.
- 5443. Current Issues in Organizational Behavior** 3 (3-0)  
 See Management for course description.
- 5613. Research Methods** 3 (3-0)  
 Scientific approach, role of theory and assumptions, bias and prejudice, attributes of problems, methods and tools of business and economic research. Student evaluates research studies and develops thesis prospectus or equivalent.
- 5713. Financial Administration** 3 (3-0)  
 See Finance for course description.
- 5813. Conceptual Foundations of Business** 3 (3-0)  
 A critical evaluation of the American business system; its logic, development, and problems, focusing on the changing social framework as it affects property, the market, the corporation, unions, and other institutions in a pluralistic society, giving insights into the various rights and responsibilities of businessmen.
- 6873. Problems of Small Enterprise Management** 3 (3-0)  
 Prerequisite: Consent of instructor.  
 Individually supervised study and analysis of problems associated with non-profit and profit-oriented enterprises. Special emphasis is placed on managerial consulting activities involving area organizations.
- 6883. Seminar in Business Policy** 3 (3-0)  
 Analytical study of process of business decision making, the creation of business strategy, and the creation of sound business objectives and policies. Takes an integrating or interdisciplinary approach to the role of the organizational executive.
- 6891, 6892, 6893. Research in Business Topics** 1-3 semester hours
- 6983, 6993. Thesis** 6 semester hours

## FINANCE COURSES

Courses in Finance are designed for students who plan careers in all areas of finance, both public and private. The courses are also designed to help students in other majors broaden their knowledge in finance.

- 1733. Personal Finance** 3 (3-0)  
 A study from the consumer's point of view of individual and family financial problems with emphasis on budgeting, credit purchases, insurance, social security, taxes, investments and sources of consumer information.

- 3703. Money, Banking, and Monetary Theory** 3 (3-0)  
See Economics for course description.
- 3733. Corporation Finance** 3 (3-0)  
Prerequisites: Accounting 2244; Economics 2433.  
Development of corporate forms of business organization, legal status of the corporations, and special problems peculiar to corporations.
- 3743. Public Finance** 3 (3-0)  
See Economics for course description.
- 4133. Credit Management** 3 (3-0)  
Prerequisites: Accounting 2244; Marketing 3723.  
Sources of credit information used in mercantile, consumer, and bank credit. Analysis of financial statements, bureau and agency reports, establishment of credit limits, collection procedures, and legal remedies of creditors.
- 4653. Financial Management** 3 (3-0)  
Prerequisite: Corporation Finance 3733.  
The financial management of the firm, the corporation with emphasis on the development of the analytical and decision-making techniques. Topics include financial planning; capital budgeting; evaluation of alternative sources of short-term, intermediate and long-term funds and determining the best combination of these sources; and the financing of growth and development.
- 4733. Investments** 3 (3-0)  
Prerequisites: Accounting 2244; Economics 2333, 2433.  
Various investment markets with special emphasis on corporate and government securities; the effect of investment control by the federal government evaluated from the viewpoint of the public and the investor.
- 5713. Financial Administration** 3 (3-0)  
Theoretical and procedural consideration in the administration of the finance function in the business firm; planning, fund raising, controlling of firm's finances. Specific emphasis is given to working capital management, capital budgeting, and cost of capital.

## MANAGEMENT COURSES

### QUANTITATIVE MANAGEMENT

Courses in quantitative management are designed to assist students who plan careers in management analysis, quantitative decision theory; and the application of the electronic computer for business decision-making.

- 1114. Electronic Data Processing** 4 (3-2)  
See General Business for course description.
- 2113. COBOL Programming** 3 (3-0)  
See General Business for course description.
- 2203. Statistics** 3 (3-0)  
Prerequisite: Six hours of mathematics or consent of instructor.  
Method of sampling and describing numerical data; elements of probability, testing hypotheses and interval estimates of population characteristics.



**3003. Mathematics of Managerial Economics** 3 (3-0)  
See Economics for course description.

**3113. Management Information Systems** 3 (3-0)  
Prerequisites: Data Processing 1114; Principles of Management 3013.

The role electronic data processing plays in assisting management toward the achievement of organizational goals. Includes such topics as: system concept and design, time sharing, multi-processing, telecommunications, and on-line real-time information systems.

**3213. Applied Business Statistics (Forecasting)** 3 (3-0)  
See Statistics for course description.

**3313. Advanced Programming Applications** 3 (3-0)  
See General Business for course description.

**3993. Quantitative Methods I** 3 (3-0)  
Prerequisites: Accounting 2144, Economics 2433, Business Administration 3213.

Introduction to methods and industrial applications of operations research, emphasizing topics on break even, decision theory, networks, inventory control, queueing and simulation. May be counted as Economics.

**4103. Quantitative Methods II** 3 (3-0)  
Prerequisites: Business Administration 3993 and Economics 3003.

A continuation of Quantitative Methods I concentrating on linear and non-linear programming, games, strategies and Markov chains.

**4113. Computer Simulation of Management Problems** 3 (3-0)  
Prerequisites: Business Administration 2113, 3213; Accounting 2244 or consent of instructor.

Objective of the course is to provide competence in the use of a computer for the solution of problems in the functional areas of management.

**4133. Credit Management** 3 (3-0)  
See Finance for course description.

**4453. Production Management** 3 (3-0)  
Prerequisite: Consent of instructor.

The development of a basic understanding of the manufacturing function in industry from the managerial viewpoint. The application of various quantitative tools in managerial work is illustrated, but a balance is maintained between qualitative and quantitative material.

**4473. Systems and Methods** 3 (3-0)  
Prerequisites: Management 4453; General Business 1114.

Informational and operating systems needed for direct work toward the achievement of organizational objectives. Development of methods and procedures to integrate man-and-machine systems into an efficient master plan.

**4863. Management Science Research** 3 semester hours  
Prerequisites: Management 4103 and consent of instructor.

Applications of quantitative techniques of decision-making to business and industrial problems. Students will select a problem area, build the appropriate mathematical model and make decisions based on the optimum solution of the problem.

**NON-QUANTITATIVE MANAGEMENT**

The emphasis in management is the preparation of students who want broad backgrounds in policy formulation, decision-making and operating problems of the manager. Students can develop careers in personnel or industrial administration.

**3013. Principles of Management 3 (3-0)**

Prerequisites: Accounting 2144; Economics 2333.

Designed to prepare students in the fundamentals of all phases of administration. Successful management principles and techniques are given for all fields of business which include: business objectives, policies, functions, executive leadership, organization structure, and control procedures.

**3103. Managerial Accounting 3 (3-0)**

See Accounting for course description.

**4213. Personnel Management and Human Relations 3 (3-0)**

Prerequisite: Management 3013.

Personnel policies, procedures, techniques, managerial, employee, and public attitudes; job analysis, evaluation, and classification, labor and management policies and related personnel problems.

**4653. Financial Management 3 (3-0)**

See Finance for course description.

**4753. Marketing Management 3 (3-0)**

See Marketing for course description.

**4783. Entrepreneurship 3 (3-0)**

Prerequisites: Completion of junior level core courses and consent of instructor.

Study of entrepreneurship: how to go about starting, financing, and running a successful new business. Topics covered will include: characteristics of successful entrepreneurs, the idea, and business plan, sources of capital, self-development, recruiting, forecasting, and financial planning. A term project will involve the development of a business plan for an actual proposed new business.

**5423. Seminar in Industrial Management 3 (3-0)**

A critical analysis of and research into emerging industrial management theories and tools with emphasis on their economic, social and physical implications.

**5433. Management of International Business Operations 3 (3-0)**

Analysis of overseas projects according to purpose and type of organization.

**5443. Current Issues in Organizational Behavior 3 (3-0)**

Behavioral factors relating to issues such as automation, ethics, labor-management relations and similar problems, with emphasis upon research and current literature.

**6883. Seminar in Business Policy 3 (3-0)**

See General Business for course description.

## MARKETING COURSES

Courses in marketing are designed for students who plan careers in marketing and distribution. The program focuses upon an analysis of ways business firms administer resources to meet their marketing goals.

**3723. Principles of Marketing** 3 (3-0)

Prerequisites: Economics 2333, 2433; Accounting 2144.

Status of marketing in our economic structure: analysis of marketing structures by function, institutions and commodities; marketing policies and methods. May be counted as journalism.

**4133. Credit Management** 3 (3-0)

See Finance for course description.

**4143. Marketing Research** 3 (3-0)

Prerequisites: Marketing 3723, Statistics 2203.

Research design and execution for business or institutional purposes often used in marketing and opinion analysis. Central to the course are the areas of sample design, questionnaire construction, and interviewing technique.

**4203. Advertising** 3 (3-0)

Prerequisite: Marketing 3723.

Relationship between formal advertising in all of its various forms and all other types of sales promotion with which it should be coordinated; evaluations of advertising in terms of selling results. May be counted as journalism.

**4223. Retailing** 3 (3-0)

Prerequisite: Marketing 3723.

Philosophy and techniques of modern retail merchandising; store location, traffic studies, store layouts and arrangements; store organization, merchandising budget system, and store policies.

**4683. Public Relations** 3 (3-0)

See journalism section. May be counted as Business Administration.

**4753. Marketing Management** 3 (3-0)

Prerequisite: Marketing 3723.

Marketing management including a study of qualitative and quantitative market analysis, product distribution, sales management functions, sales organization, sales promotion functions and sales control.

**5513. Contemporary Marketing Problems** 3 (3-0)

A marketing seminar concerning the legal and social environment using extensive case studies and relevant thought from marketing literature.

## STATISTICS COURSES

Courses in statistics provide the fundamental techniques and applications for a quantitative analysis for a diversified group of business problems.

**1114. Electronic Data Processing** 4 (3-2)

See General Business for course description.

|   |         |
|---|---------|
| 2203. <b>Statistics</b>   | 3 (3-0) |
| Prerequisite: Six hours of mathematics or consent of instructor.  |         |
| Method of sampling and describing numerical data; elements of probability, testing hypotheses and interval estimates of population characteristics. |         |
| 3113. <b>Management Information Systems</b>   | 3 (3-0) |
| See Management for course description.  |         |
| 3213. <b>Applied Business Statistics</b> (Forecasting)  | 3 (3-0) |
| Prerequisite: Statistics 2203.  |         |
| Analyzing and presenting data; time series analysis, theory of index numbers, forecasting for business decisions. May be counted as Economics.      |         |
| 3993. <b>Quantitative Methods I</b>   | 3 (3-0) |
| See Management for course description.  |         |
| 4103. <b>Quantitative Methods II</b>  | 3 (3-0) |
| See Management for course description.  |         |
| 4143. <b>Marketing Research</b>   | 3 (3-0) |
| See Marketing for course description.   |         |
| 5623. <b>Statistical Analysis</b>   | 3 (3-0) |
| Prerequisite: Research Methods 5613 or consent of instructor.   |         |
| Selected topics in sampling, analysis of variance, multiple regression and non-parametric statistics.   |         |

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## SECRETARIAL ADMINISTRATION PROGRAM

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### COURSE REQUIREMENTS FOR B.B.A. IN SECRETARIAL ADMINISTRATION

**Major** (30 semester hours)

Business Administration 3243; Secretarial Administration 1123, 1223, 1233, 1333, 1433, 2223, 3223, 4403, 4433

**Minor** (18 semester hours) (see advisers in Secretarial Administration)

**Professional Business Core** (33 semester hours)

**General Requirements** (22 semester hours)

English 1113, 1123

History 1133, 1233

Satisfaction of the requirement for physical education activities and/or basic military science.

Political Science 1333, 1433

**Additional General Requirements** (21 semester hours)

|                         |   |
|-------------------------|---|
| Natural science         | 6 |
| Mathematics 1203, 1213* | 6 |
| Sophomore literature    | 6 |
| Speech 1133             | 3 |



# **CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF BUSINESS ADMINISTRATION**

## **Major in Secretarial Administration**

### **FRESHMAN YEAR**

| <b>First Semester</b>                  | <b>Sem. Hrs.</b> | <b>Second Semester</b>               | <b>Sem. Hrs.</b> |
|--|------------------|--------------------------------------|------------------|
| 1113. English .....                    | 3                | 1123. English .....                  | 3                |
| 1133. History .....                    | 3                | 1233. History .....                  | 3                |
| 1203. Mathematics* .....               | 3                | 1213. Mathematics* .....             | 3                |
| 1233. Shorthand** .....                | 3                | 1333. Intermediate Shorthand** ..... | 3                |
| 1123. Intermediate Typewriting** ..... | 3                | 1223. Advanced Typewriting .....     | 3                |
| P.E. ....                              | 1                | P.E. ....                            | 1                |
|  | <u>16</u>        |                                      | <u>16</u>        |

### **SOPHOMORE YEAR**

|       |                                |    |       |                                |    |
|-------|--------------------------------|----|-------|--------------------------------|----|
|       | Sophomore literature . . . . . | 3  |       | Sophomore literature . . . . . | 3  |
| 1114. | Electronic Data                |    |       | Natural science . . . . .      | 3  |
|       | Processing . . . . .           | 4  | 2244. | Accounting . . . . .           | 4  |
| 2144. | Accounting . . . . .           | 4  | 2203. | Statistics . . . . .           | 3  |
| 1433. | Office Machines . . . . .      | 3  | 2223. | Advanced Shorthand . . . . .   | 3  |
| 1133. | Speech . . . . .               | 3  |       | P.E. . . . .                   | 1  |
|       | P.E. . . . .                   | 1  |       |                                | —  |
|       |                                | —  |       |                                | 17 |
|       |                                | 18 |       |                                |    |

### **JUNIOR YEAR**

|                                      |           |                                     |           |
|--------------------------------------|-----------|-------------------------------------|-----------|
| 2333. Economics I .....              | 3         | 2433. Economics II .....            | 3         |
| 1333. Political Science .....        | 3         | 1433. Political Science .....       | 3         |
| Natural science .....                | 3         | 3223. Business Communications ..... | 3         |
| 3233. Business Law .....             | 3         | 3243. Business Law .....            | 3         |
| 3013. Principles of Management ..... | 3         | Elective .....                      | 3         |
|                                      | <u>15</u> |                                     | <u>15</u> |

### **SENIOR YEAR**

|                                     |           |                           |           |
|-------------------------------------|-----------|---------------------------|-----------|
| 4433. Secretarial Practice .....    | 3         | 4403. Transcription ..... | 3         |
| 3723. Principles of Marketing ..... | 3         | Advanced Electives .....  | 9         |
| 3733. Corporation Finance .....     | 3         | Elective .....            | 2         |
| Advanced Electives .....            | 6         |                           | <u>14</u> |
|                                     | <u>15</u> |                           |           |

\*Or equivalent approved by adviser.

\*\*Students with one year of high school typewriting and shorthand enroll in intermediate typewriting (1123) and shorthand (1333.)

**Note:** Secretarial Administration majors who want to teach must take 18 hours of Education.

**Minor in Secretarial Administration (21 semester hours)**

Secretarial Administration 1123, 1223, 1233, 1333, 2223, 4403, 4433

**ONE-YEAR CERTIFICATE  
SECRETARIAL PROGRAM**

| First Semester                    | Sem. Hrs. | Second Semester                      | Sem. Hrs. |
|-----------------------------------|-----------|--------------------------------------|-----------|
| 1113. English .....               | 3         | 1123. English OR                     |           |
| 1023. Beginning Typewriting ..... | 2         | 1133. Speech .....                   | 3         |
| 1433. Office Machines .....       | 3         | 1123. Intermediate Typewriting ..... | 3         |
| 1033. Fundamentals of Bus.        |           | 1233. Shorthand .....                | 3         |
| Analysis .....                    | 3         | 1114. Electronic Data                |           |
| 1133. Beginning Shorthand .....   | 3         | Processing .....                     | 4         |
| —                                 |           | 1333. General Economics .....        | 3         |
|                                   | 14        | —                                    |           |
|                                   |           |                                      | 16        |

**Note:** If a student qualifies to skip Beginning Shorthand and/or Beginning Typewriting, an appropriate two-semester sequence in each will fulfill the requirement.

**TWO-YEAR CERTIFICATE  
SECRETARIAL PROGRAM****FIRST YEAR**

| First Semester                    | Sem. Hrs. | Second Semester                      | Sem. Hrs. |
|-----------------------------------|-----------|--------------------------------------|-----------|
| 1113. English .....               | 3         | 1123. English .....                  | 3         |
| 1023. Beginning Typewriting ..... | 2         | 1123. Intermediate Typewriting ..... | 3         |
| 1133. Beginning Shorthand .....   | 3         | 1233. Shorthand .....                | 3         |
| 1433. Office Machines .....       | 3         | 1033. Fundamentals of Business       |           |
| 1203. Finite Math .....           | 3         | Analysis .....                       | 3         |
| —                                 |           | 1114. Electronic Data                |           |
|                                   | 14        | Processing .....                     | 4         |
|                                   |           | —                                    |           |
|                                   |           |                                      | 16        |

**SECOND YEAR**

|                                    |    |                                |    |
|------------------------------------|----|--------------------------------|----|
| 2103. Technical Writing .....      | 3  | 1113. Speech .....             | 3  |
| 1223. Advanced Typewriting .....   | 3  | 2223. Advanced Shorthand ..... | 3  |
| 1333. Intermediate Shorthand ..... | 3  | 1333. General Economics .....  | 3  |
| 2144. Accounting .....             | 4  | 1333. Political Science .....  | 3  |
| 1103. Psychology .....             | 3  | 2244. Accounting .....         | 4  |
| —                                  |    | —                              |    |
|                                    | 16 |                                | 16 |

**Note:** If a student qualifies to skip Beginning Typewriting and/or Beginning Shorthand, electives will be recommended by the adviser for these hours of credit.

**REQUIREMENTS FOR THE INTEGRATED TEACHING FIELD IN  
BUSINESS EDUCATION**

See page 131.

**COURSES IN SECRETARIAL ADMINISTRATION**

1023. **Beginning Typewriting** 3 (3-0)  
For beginning students in typewriting. Machine service fee: \$5.00.
1123. **Intermediate Typewriting** 3 (3-0)  
For students who have had one semester of college typewriting or one year of high school typewriting. Machine service fee: \$5.00.
1133. **Beginning Shorthand** 3 (3-0)  
Introductory course in Gregg shorthand, Diamond Jubilee Series.
1223. **Advanced Typewriting** 3 (3-0)  
Prerequisite: Secretarial Administration 1123 or equivalent.

Additional drill in typewriting skills and techniques. Machine service fee: \$5.00.

**1233. Shorthand** 3 (3-0)

Prerequisite: Secretarial Administration 1133 or equivalent.

Second semester in Gregg shorthand, Diamond Jubilee Series.

**1333. Intermediate Shorthand** 3 (3-0)

Prerequisites: Secretarial Administration 1233 and 1223 or equivalent.

Gregg shorthand, Diamond Jubilee Series, with emphasis on transcription. Machine service fee: \$5.00.

**1433. Office Machines** 3 (2-2)

Methods and techniques utilized in the operation of selected office machines. The course material presented includes credit balances, percentages, chain discounts, finding the rate, figuring interest and other related business finance applications. Machine service fee: \$5.00.

**1533. Machine Transcription** 3 (2-2)

Prerequisite: Secretarial Administration 1223 or equivalent.

Practice transcription on selected materials; general vocabulary. Machine service fee: \$5.00.

**1633. Machine Transcription** 3 (2-2)

Prerequisite: Secretarial Administration 1533 or equivalent.

Practice transcription on selected materials; specialized vocabulary. Machine service fee: \$5.00.

**2223. Advanced Shorthand** 3 (3-0)

Prerequisite: Secretarial Administration 1333 or equivalent.

Speed building in shorthand, advanced phrase and vocabulary building. English studies, and timed transcriptions. Machine service fee: \$5.00.

**3223. Business Communications** 3 (3-0)

Prerequisite: Secretarial Administration 1023 or equivalent.

Applications of the Theory of Communications. Emphasis placed in inter-intra company communications, both oral and written.

**4403. Transcription** 3 (3-0)

Prerequisite: Secretarial Administration 2223 or equivalent.

For advanced students in the secretarial field with emphasis on speed building in typewriting, shorthand, and transcription. English style studies, increased vocabulary, advanced phrasing, and vocational dictation. Machine service fee: \$5.00.

**4433. Secretarial Practice** 3 (3-0)

Prerequisites: Secretarial Administration 2223 or equivalent; Business Administration 3223, 3013.

Development of the secretary's role as assistant to management. Emphasis on human relations and supervisory responsibilities. A comprehensive study of the scope of the executive secretarial field, including records management, utilization of communication services, financial and legal responsibilities, duties incident to travel and meetings and business ethics. Fee: \$5.00.

**Note:** Students who demonstrate proficiency in typewriting and shorthand on departmental examination may be permitted to enroll for a more advanced level course in the sequence.

**DEPARTMENT OF ECONOMICS**

**Robert G. Welch, Chairman** (229 Fowler Building)  
Professors: Krienke, Welch  
Assistant Professors: Harmel, Kane

Courses and programs in economics are available to serve at least two types of educational interests. Students planning to be professionally involved with economic matters—decision-making by business and government units—would appropriately study economics as the major. Also students may use the subject as a strong complement to another major subject area. Such students would include several courses of economics in their programs.

Though not professionally interested in economics, students may still seek knowledge and analytical skills about the economy, how it functions and relates to households, business and governments in local, state, national and international settings. The information would befit a well-informed public voting about economic affairs. These students would take the principles course(s) plus upper-level courses selected by particular interests.

**REQUIREMENTS FOR MAJORS IN ECONOMICS**

Majors in economics may select from three degree possibilities: Bachelor of Business Administration, Bachelor of Science or Bachelor of Arts. Requirements for each degree are described below.

**REQUIREMENTS FOR A MINOR IN ECONOMICS** (18 semester hours)

Economics 2333, 2433, 3333, and nine advanced hours of economics

**COURSE REQUIREMENTS FOR B.B.A. DEGREE WITH MAJOR IN ECONOMICS****Major** (27 semester hours)

- 2333, 2433 Economics I, II
- 3323, 3333 Intermediate Macroeconomics and Microeconomics
- 3003 Mathematics of Managerial Economics
- 3703 Money, Banking and Monetary Theory
- Plus nine advanced hours

**Minor** (18 semester hours)**Professional Business Core** (27 semester hours)**General Requirements** (22 semester hours)

- English 1113, 1123
- History 1133, 1233
- Political Science 1333, 1433
- Physical Education activities and/or military science 4-8 hours



**Additional General Requirements** (30 semester hours)

Natural science 6 hours

Business Law 3243

Statistics 3213

Mathematics 1203, 1213

Electives from School of Humanities and Social Sciences 6 hours

Electives as needed to complete program

**COURSE REQUIREMENTS FOR B.A. DEGREE WITH MAJOR IN ECONOMICS**

University requirements for all degrees (see page 30).

**Departmental requirements**

27 semester hours in economics including Economics 2333, 2433, 3003, 3323, 3333 and 3703, of which 21 hours must be advanced

Statistics 2203; Applied Business Statistics 3213

A minor field of study of at least 18 hours selected with consent of student's adviser

**Additional requirements**

Nine hours of science and mathematics

12 hours of foreign language

Six hours of sophomore literature

One course each from two of the following fields which are not the major or minor fields:

|                  |            |            |
|------------------|------------|------------|
| anthropology     | economics  | philosophy |
| art              | geography  | psychology |
| astronomy        | humanities | sociology  |
| Biblical history | journalism | speech     |
| drama            | music      |            |

Sixty hours must be taken in liberal arts. Economics and mathematics are liberal arts subjects.

**COURSE REQUIREMENTS FOR B.S. DEGREE WITH MAJOR IN ECONOMICS**

University requirements for all degrees (see page 31).

Two courses in each of two laboratory sciences and two courses in mathematics

**Departmental requirements**

27 semester hours in economics including Economics 2333, 2433, 3003, 3323, 3333, and 3703; 21 hours must be advanced

Statistics 2203; Applied Business Statistics 3213

Electronic Data Processing 1114 or Computing Science 2003

A minor field of study of at least 18 hours selected with consent of student's adviser

**Outside major and minor**

Three semester hours from art, drama, humanities, literature, music, philosophy or religion

Three semester hours from anthropology, economics, education, geography, advanced military science, psychology, sociology, speech or statistics

## CURRICULUMS FOR ECONOMICS MAJORS

| Bachelor of Business Administration Degree |     |  | Bachelor of Science Degree   |     |  | Bachelor of Arts Degree      |     |  |
|--|-----|--|------------------------------|-----|--|------------------------------|-----|--|
| First Year                                 | Hrs |  | First Year                   | Hrs |  | First Year                   | Hrs |  |
| English 1113, 1123                         | 6   |  | English 1113, 1123           | 6   |  | English 1113, 1123           | 6   |  |
| History 1133, 1233                         | 6   |  | History 1133, 1233           | 6   |  | History 1133, 1233           | 6   |  |
| Mathematics 1203*, 1213*                   | 6   |  | Mathematics 1203*, 1213*     | 6   |  | Mathematics 1203*, 1213*     | 6   |  |
| Data Processing 1114                       | 4   |  | Data Processing 1114         | 4   |  | Foreign Language             | 6   |  |
| Natural science                            | 6   |  | Laboratory science           | 6   |  | P.E. or military science     | 2   |  |
| P.E. or military science                   | 2   |  | P.E. or military science     | 2   |  | Elective***                  | 3   |  |
| Second Year                                |     |  | Second Year                  |     |  | Second Year                  |     |  |
| Accounting 2144, 2244                      | 8   |  | Business Statistics 2203     | 3   |  | Business Statistics 2203     | 3   |  |
| Business Statistics 2203                   | 3   |  | Economics 2333, 2433         | 6   |  | Economics 2333, 2433         | 6   |  |
| Economics 2333, 2433                       | 6   |  | Political Science 1333, 1433 | 6   |  | Foreign language             | 6   |  |
| Political Science 1333, 1433               | 6   |  | Laboratory science           | 6   |  | Natural science              | 3   |  |
| P.E. or military science                   | 2   |  | P.E. or military science     | 2   |  | Political Science 1333, 1433 | 6   |  |
| Elective and/or minor**                    | 6   |  | Minor                        | 3   |  | P.E. or military science     | 2   |  |
|  |     |  | Electives***                 | 6   |  | Electives and/or minor***    | 6   |  |
| Third Year                                 |     |  | Third Year                   |     |  | Third Year                   |     |  |
| Business Law 3233, 3243                    | 6   |  | Business Statistics 3213     | 3   |  | Business Statistics 3213     | 3   |  |
| Economics, 3003, 3323,                     |     |  | Economics 3003, 3323,        |     |  | Economics 3003, 3323,        |     |  |
| 3333, 3703                                 | 12  |  | 3333, 3703                   | 12  |  | 3333, 3703                   | 12  |  |
| Management 3013                            | 3   |  | Minor                        | 9   |  | Sophomore literature         | 6   |  |
| Business Statistics 3213                   | 3   |  | Electives                    | 9   |  | Minor                        | 9   |  |
| Electives and/or minor                     | 9   |  |                              |     |  |                              |     |  |
| Fourth Year                                |     |  | Fourth Year                  |     |  | Fourth Year                  |     |  |
| Economics                                  | 9   |  | Economics                    | 9   |  | Economics                    | 9   |  |
| Corporation Finance 3733                   | 3   |  | Minor                        | 6   |  | Minor                        | 6   |  |
| Marketing 3723                             | 3   |  | Electives                    | 14  |  | Electives                    | 18  |  |
| Electives and/or minor                     | 15  |  |                              |     |  |                              |     |  |

\*Or equivalent approved by adviser

\*\*Six hours of electives from School of Humanities and Social Sciences

\*\*\*Six hours of elective credits must be from additional requirements listed for B.A. in previous information

\*\*\*\*Six hours must be taken from subjects listed in B.S. Degree requirements under outside major/minor in previous information

**COURSES IN ECONOMICS****1333. General Economics 3 (3-0)**

A non-theoretical approach to describe economic involvement in relevant social and political matters. A subject matter to help fill the general need for improved economic reasoning.

**2333. Economics I 3 (3-0)**

Scope and methodology of economics. Development of principles useful for understanding aggregate economics and for choosing policy to resolve problems as unemployment, inflation, recession, poverty, economic stagnation, resource waste.

**2433. Economics II 3 (3-0)**

Economic principles to describe behavior of business firms under conditions of competition or monopoly and to explain what determines product and resource price levels. An application of economic tools to selected problems in monopoly, international trade, economic development, taxation.

**3003. Mathematics of Managerial Economics 3 (3-0)**

Prerequisites: Economics 2433; Mathematics 1213.

Mathematical formulation of economic theories of supply, demand, market equilibrium, maximum profit, and economic growth.

**3213. Applied Business Statistics 3 (3-0)**

See Statistics for course description.

**3323. Intermediate Macroeconomics 3 (3-0)**

Prerequisite: Three hours of economics

Macroeconomic analysis is used to identify forces affecting the economy's performance and to present theory useful in policy development to achieve society's economic goals.

**3333. Intermediate Microeconomics 3 (3-0)**

Prerequisites: Economics 2333, 2433.

An analysis of the over-all functioning of the price system and of the modern business firm in a private enterprise, market-type economy. The relation of price, quantity, and profit under competition and imperfect competition.

**3703. Money, Banking, and Monetary Theory 3 (3-0)**

Prerequisite: Three hours of economics.

Historical development, present organizational structure, and operational importance of the money and banking systems with introduction to monetary theory as a tool for choosing appropriate economic policy.

**3743. Public Finance 3 (3-0)**

Prerequisite: Three hours of economics.

A critical analysis of government acquisition and disbursement of revenues; detailed attention of the various taxing programs, the economic effects of governmental debt, and the significance of governmental expenditures for national defense, public works, social security benefits, resource development, and education.

**3993. Quantitative Methods 3 (3-0)**

See Management for course description.

**4543. Econometrics**

3 (3-0)

Prerequisite: Statistics 3213.

Introduction to the construction of models, estimation of parameters, interpretation of the estimates, and use of the estimates in constructing new theories and making forecasts. Special emphasis is placed on multiple regression techniques and associated time series analyses. This includes the topics of multicollinearity, autocorrelation, lagged variables, and dummy variables.

**4633. Studies in Contemporary Economics**

3 (3-0)

Prerequisite: Three hours of economics.

**Topic 1: Economic Development**, an examination of the nature and causes of underdevelopment in selected countries with reference to policies which initiate and accelerate the development process and to the role of indigenous institutions.

**Topic 2: Urban Economic Problems**, the economic aspects of urban sub-employment, poverty, education, housing, transportation, health care and equal opportunity examined in light of the rapidly changing structure of American society including a review of programs to counter urban decay.

**Topic 3: Growth and Affluence**, the implications of America's unparalleled growth and affluence for her natural environment, her economic institutions and her people. The consequences of growth, automation, and the process of rapid structural change are examined through case studies of specific regional experiences.

May be repeated for credit with departmental approval when topics vary.

**4643. International Economics**

3 (3-0)

Prerequisite: Three hours of economics.

International trade theory and practice; historical survey, balance of payments, and world economic problems.

**4703. Human Resources**

3 (3-0)

Prerequisite: Three hours of economics.

A consideration of the forces which affect the role of human resources in the American economy. The particular impact of the courts, unions, technology and public policy upon the labor force will be examined.

**4713. History of Economic Thought**

3 (3-0)

Prerequisite: Three hours of economics.

The significance, influence, and development of economic doctrines from ancient times to modern thought.

**4723. Comparative Economic Systems**

3 (3-0)

Prerequisite: Three hours of economics.

A survey of various economic systems including Capitalism, Socialism, Communism, Fascism, and Nazism.

**4733. Investments**

3 (3-0)

See Finance for course description.

**4743. Government and Business**

3 (3-0)

Prerequisites: Economics 2333, 2433.

The economic implications of government influence over business; the economic effects of monopoly; special consideration of the Sherman Act, Clayton Act, patent laws, and other laws related to the problems of competition and monopoly. May be counted as General Business.



**4833. American Economic History**

3 (3-0)

Prerequisite: Three hours of economics.

An analysis of American development from colonial times to the present; and an analysis of the factors which have shaped that development.

**4883. Problems in Economics and Business**

3 semester hours

Prerequisite: Three hours of economics.

Research in a specific area selected by the student in conjunction with a member of the school faculty. This course is open to students of high scholastic standing and must have been approved prior to registration. May be counted as Business Administration.

**4993. Business and Economic Research**

3 semester hours

Prerequisite: Consent of instructor.

Discussion of the formulation of research topics, problems of definition and quantification. Conceptual and empirical problems of conducting library and field research. May be counted as Business Administration.

**5103. Economic Education Workshop—Public Sector Topics**

3 (3-0)

Designed primarily for public school teachers as a means of improving their ability to understand and discuss current economic issues, and to suggest ways of utilizing this ability in the classroom. Special emphasis upon the topics of inflation, unemployment, the national debt, environmental protection and welfare. May be taken for graduate credit by students from the School of Education.

**5113. Microeconomics**

3 (3-0)

The role of prices in organizing economic activity. An analysis of the household, the firm and the market under varying degrees of competition.

**5123. Contemporary Economic Issues**

3 (3-0)

Examination of problems and policies associated with contemporary macroeconomics and a survey of recent contributions to the science of economics.

**5133. International Trade and Monetary Problems**

3 (3-0)

Study of and empirical evidence related to trade patterns, payments, adjustment mechanisms, common markets, trade controls, multinational corporations and recent international monetary developments.

**5143. Macroeconomics**

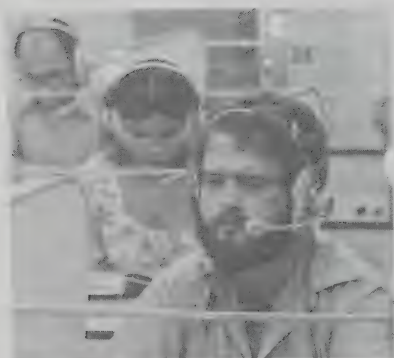
3 (3-0)

Investigation of major theories used to explain the determination and behavior of employment, output, prices and growth. Various potential policies are identified and evaluated with respect to particular macroeconomic problems.

**5203. Economic Education Workshop—Private Sector Topics**

3 (3-0)

To provide teachers with a grasp of issues concerning the American consumer and the free enterprise system. Participants will be equipped to understand and discuss these issues and will be assisted in preparing methods for incorporating this knowledge into their particular teaching fields. Topics include: business pricing practices, concentration and monopoly, labor unions, consumerism, technology and pollution control. May be taken for graduate credit by students from the School of Education.



# **School Of Education**

## **Department of Education**

Teacher Certification

Degree Requirements

Graduate Programs

Education Courses

Pre-Professional

Professional

Educational Foundations

## **Department of Health, Physical Education, and Recreation**





# The School Of Education

CLARENCE L. DARTER, JR., *Dean*  
202 Ferguson Building

## DEPARTMENT OF EDUCATION

**T. Barlow Hill, Chairman** (202 Ferguson Building)  
Professors: Darter, Dickerson, Furr, B. Hill, Smith, Steph  
Associate Professor: Newton  
Assistant Professors: Barber, Capps, C. Hill, Richardson  
Instructor: Jones

## TEACHER CERTIFICATION

**Admission to Candidacy.** All candidates for teacher certification must make application to the Teacher Education Committee for admission to candidacy upon completion of 42 semester hours. Permission to enroll in advanced education courses may be denied students who have not been admitted to candidacy for teacher certification. The applicant must have a cumulative grade point average of 2.25 not later than the semester in which he attempts his 75th semester hour, and a grade point average of 2.0 in freshman and sophomore English hours completed, but not less than nine semester hours. As required by Texas Education Agency regulations, the candidate for teacher certification must be of good moral character and have the ability to speak and understand the English language sufficiently to use it easily and readily in conversation and teaching, as judged by the recommending institution. A selected personality inventory will be administered by the Department of Education. Diagnostic tests by the MSU Speech and Hearing Clinic in articulation, hearing, voice, and rhythm are required.

**Admission to Student Teaching.** The student should make application for student teaching by November 1 for the spring semester and April 1 for the fall semester. Applicants must present approval of the departments offering the first and second teaching fields and the education department. The student will be evaluated in terms of that portion of required content courses completed in the first and second teaching fields, other requirements of these departments, and the professional education courses completed. A 2.5 grade point average in major and minor teaching fields and professional education courses completed is required.

**University Recommendation.** University recommendation for teacher certification will be made upon completion of the approved program and approval by the Teacher Education Committee. Recommendation for certification will not be made for a student receiving a grade below C in student teaching. The undergraduate programs for preparing elementary and secondary teachers are accredited by the National Council for Accreditation of Teacher Education.

**PROVISIONAL CERTIFICATE REQUIREMENTS FOR ELEMENTARY  
AND SECONDARY TEACHERS**

All **undergraduate** students seeking teacher certification shall have their official adviser appointed by the Chairman of the Department of Education.

All **graduate** students seeking teacher certification shall file a deficiency plan with the Dean of the School of Education.

**REQUIREMENTS FOR THE BACHELOR OF SCIENCE IN EDUCATION DEGREE  
ELEMENTARY**

**Academic Foundations (59 semester hours)**

|  |       |
|--|-------|
| Biology 1344 .....   | 4     |
| English 1113, 1123, six hours sophomore literature.....  | 12    |
| Physical Education or ROTC .....   | 4     |
| History 1133, 1233 .....   | 6     |
| Math 1033 .....  | 3     |
| Political Science 1333, 1433 .....   | 6     |
| Speech 1233 .....  | 3     |
| Six additional semester hours from: .....  | 6     |
| Science  |       |
| Mathematics  |       |
| Foreign language (six semester hours minimum in one language)  |       |
| Electives from the Department of Economics, the School of<br>Humanities and Social Sciences, or the School of Science and<br>Mathematics ..... | 9     |
| Free electives .....   | 6     |
|  | <hr/> |
|  | 59    |

**Academic Specialization (Plan 1 18-18) 36-42 semester hours**

- (a) Minor in one subject with a grade point average of 2.5 or more from art, biology, drama, earth science, English, French, German, health and physical education, history, mathematics, music, sociology, Spanish and speech (See following page for specific requirements.) ..... 18-24

Any courses completed in satisfying the 59 semester hours requirement in academic foundations, above, may also be counted in the minor for elementary majors.

- (b) Art 4303; English 3013; Music 4813; plus nine semester hours from Art 1413, Economics 1333, English 3003, Geography 3003, Health and Physical Education 2203, 4663, History 3013 or 3023, Music 1503 or 4873, Physics 1003, 1533, Psychology 1103, Sociology 1133, Drama 4423 ..... 18

**Professional Development** (12 semester hours)

- 3133. Child Development
- 3233. Elementary School Curriculum
- 4373. Audio-Visual Methods and Materials
- 4133. Field Experiences in Elementary School (formerly Observation)  
OR
- 4573. Psychological and Educational Tests ..... 12

**Elementary Content** (12 semester hours)

- 4003. Language Arts in the Elementary School
- 4203. Reading in the Elementary School
- 4313. Mathematics for the Elementary School
- 4833. Elementary School Science ..... 12

**Student Teaching** Education 4266 ..... 6**MINOR REQUIREMENTS — ELEMENTARY MAJORS****Art** (21 semester hours)

Art 1113, 1123, 1413, three semester hours of art history from 2413, 2423, 3433; plus nine hours of which six must be advanced, selected from painting, print-making, ceramics, sculpture areas (must have a total of nine advanced hours)

**Biology** (21 semester hours)

Biology 1144, 1344, 1544; the student will select from the following, making sure that nine semester hours of advanced courses are included: 2433 or 3533, 3033, 3333, 3433

**Drama** (18 semester hours)

Drama 1233, 2133, 3433, 4423 plus six additional hours of which three must be advanced

**Earth Science** (18 semester hours)

Geology 1003, 1233, 3023, 3133; Geography 3003; Physics 1533

**English** (21 semester hours)

English 1113, 1123; six hours of sophomore literature plus nine advanced hours (excluding 3013) of which three are to be selected from 3003, 3513, 4513, 4523, 4753 or 4763

**French** (21 semester hours)

French 1133\*, 1233\*, 2133, 2233; plus nine advanced hours

**German** (21 semester hours)

German 1133\*, 1233\*, 2133, 2233; plus nine advanced hours

**Health and Physical Education** (22 semester hours)

Three activity courses 1301, 2203, 2213, 2303, 4513, 4663 plus three advanced hours

**History** (21 semester hours)

History 1133, 1233, 1333, 1433; an advanced course in American history; three advanced semester hours from Far Eastern history, European history or Latin American history; plus three advanced hours

**Mathematics** (18 semester hours)

Mathematics 1033, 1043, 1233, 3293, 3133, 4453

**Music** (21 semester hours)

Music 1603, 1613; four semester hours in applied music with proficiency; eleven additional hours of which nine must be advanced from music history, choral conducting, elementary school music methods, etc.

**Political Science** (18 semester hours)

Political Science 2333, 2433, 2523, 3443, 3553; select three hours from 3233, 4023, 4163

**Sociology** (18 semester hours)

Anthropology 1233; Sociology 1133, 2233, 4133; select six hours from 3343, 3433, 3733, 4533

**Spanish** (21 semester hours)

Spanish 1133\*, 1233\*, 2133, 2233; plus nine advanced hours

**Speech** (21 semester hours)

Speech 1233, 2133, 4423; plus 12 hours of which six must be advanced. Drama 4423 may count as part of the minor and part (b) of Academic Specialization.

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\*One or both may be exempted by placement tests.

## REQUIREMENTS FOR ADDITIONAL ENDORSEMENTS TO ELEMENTARY CERTIFICATE

**KINDERGARTEN**

Requirements for the kindergarten endorsement on the Elementary Provisional Certificate include 12 hours in courses specifically devoted to the education of the young child with a cumulative grade point average of 2.5. Three of these 12 hours are student teaching in kindergarten. If student teaching has been completed previously, the student can take an additional course in kindergarten education and successfully teach one year in kindergarten in an accredited school to complete the requirements for kindergarten endorsement. However, the student may elect to do student teaching in kindergarten rather than to take the additional course in kindergarten education.

**UNDERGRADUATE**

- 4103. Education of Young Children: Introduction
- 4123. Early Childhood: Development and Learning
- 4733. Early Childhood and Kindergarten Education: Curriculum
- 4743. Student Teaching in Kindergarten

**GRADUATE**

- \*4103 Education of Young Children
- 5123 Early Childhood: Development and Learning
- 5133 Early Childhood and Kindergarten Education: Curriculum
- 5783 Advanced Childhood
- \*\*4743 Student Teaching in Kindergarten

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\*Undergraduate credit only

\*\*Student teaching may be waived by showing proof of successful public school kindergarten teaching in accredited schools.



**SPECIAL EDUCATION**

**Language and/or Learning Disabilities.** Requirements for special education endorsement in language and/or learning disabilities on the provisional Elementary or Secondary Certificate may be met by completing 15 hours of course work and three hours of student teaching with language and/or learning disabled children with a cumulative grade point average of 2.5.\*

**UNDERGRADUATE**

- 3613 Education of Exceptional Children
- 4593 Physiological and Psychological Aspects of Children with Language and/or Learning Disabilities
- 4713 Theories of Learning
- 4623 Student Teaching in Special Education: L/LD
- 4933 Identification & Appraisal of Exceptional Children
- 4823 Teaching Children with Language and/or Learning Disabilities

**GRADUATE**

- 5593 Physiological and Psychological Aspects of Children with Language and/or Learning Disabilities
- 5713 Theories of Learning
- 5733 Exceptional Children
- 5823 Teaching Children with Language and/or Learning Disabilities
- 5933 Identification & Appraisal of Exceptional Children
- 4623 Student Teaching in Special Education: L/LD\*\*

**Mental Retardation.** Requirements for special education endorsement in mental retardation may be met by completing 15 hours of course work related to mental retardation with a cumulative grade point average of 2.5.\* They may be done either in conjunction with or in addition to meeting requirements for a provisional Elementary Certificate.

**UNDERGRADUATE**

- 3613 Education of Exceptional Children
- 3923 Psychology of the Mentally Retarded
- 4933 Identification and Appraisal of Exceptional Children
- 4943 Methods and Materials for Mentally Retarded Children
- 4653 Student Teaching in Special Education: MR

**GRADUATE**

- 5733 Exceptional Children
- 5923 Psychology of the Mentally Retarded
- 5933 Identification and Appraisal of Exceptional Children
- 5943 Methods and Materials for Mentally Retarded Children
- 4653 Student Teaching in Special Education: MR\*\*

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\*Student teaching may be waived by showing proof of successful public school teaching in accredited schools.

\*\*For undergraduate credit only.

**GUIDANCE ASSOCIATE**

The guidance associate, working in a public school under the supervision of a counselor, will provide and coordinate many routine guidance activities.

These guidance activities may include the standardized testing program, pupil personnel record keeping, career guidance, and other guidance services except actual individual or group counseling. Only a master's level counselor will be allowed to counsel individually or in groups. The guidance associate will be certified to teach either in an elementary school or in the second teaching field in a secondary school.

**REQUIREMENTS FOR THE BACHELOR OF SCIENCE IN EDUCATION DEGREE**

**GUIDANCE ASSOCIATE — Elementary**

**Academic Foundations (59 semester hours)**

|  |    |
|--|----|
| Biology 1344 .....   | 4  |
| English 1113, 1123, six semester hours of sophomore literature ..... | 12 |
| History 1133, 1233 .....   | 6  |
| Mathematics 1033 .....   | 3  |
| Physical Education or ROTC .....                                     | 4  |
| Political Science 1333, 1433 .....                                   | 6  |
| Psychology 1103, 2203 .....  | 6  |
| Sociology 1133 .....   | 3  |
| Speech 1233 .....  | 3  |
| Six additional semester hours from:                                  |    |
| Science  |    |
| Mathematics  |    |
| Foreign Language (six semester hours minimum in one language) .....  | 6  |
| Free electives .....   | 6  |
|  | —  |
|  | 59 |

**Professional Development (12 semester hours)**

|   |    |
|---|----|
| 3133. Child Development .....                   | 3  |
| 3233. Elementary School Curriculum .....        | 3  |
| 4373. Audio-Visual Methods and Materials .....  | 3  |
| 4573. Psychological and Educational Tests ..... | 3  |
|   | —  |
|   | 12 |

**Elementary Content (12 semester hours)**

|  |    |
|--|----|
| 4003. Language Arts in the Elementary School ..... | 3  |
| 4203. Reading in the Elementary School .....       | 3  |
| 4313. Mathematics in the Elementary School .....   | 3  |
| 4833. Elementary School Science .....              | 3  |
|  | —  |
|  | 12 |

**Student Teaching (6 semester hours)**

|   |   |
|---|---|
| 4266. Student Teaching in the Elementary School ..... | 6 |
|   | — |
|   | 6 |

**Academic Specialization (Plan I, 39 semester hours)**

|                                      |    |
|--------------------------------------|----|
| (a) Guidance studies minor           |    |
| 2153. Introduction to Guidance ..... | 3  |
| 3153. Career Development .....       | 3  |
| 3523. Group Guidance .....           | 3  |
| 4533. Practicum in Guidance .....    | 3  |
| 3603. Psychology .....               | 3  |
| Six hours from:                      |    |
| 3403. Psychology                     |    |
| 4203. Psychology                     |    |
| 3433. Sociology                      |    |
| 4133. Sociology .....                | 6  |
|                                      | —  |
|                                      | 21 |

Any courses completed in satisfying the 59 semester hours requirement in above academic foundations, may also be counted in the minor for elementary majors.

|  |    |
|--|----|
| (b) Art 4303; English 3013; Music 4813; plus nine semester hours from Art 1413, English 3003, Geography 3003, Health and Physical Education 2203, 4663, History 3013 or 3023, Music 1503 or 4873, Physics 1003, 1533, Psychology 1103, Sociology 1133, Speech 4423 |    |
|  | 18 |
|  | —  |
|  | 39 |

**GUIDANCE ASSOCIATE — Secondary****Academic Foundations (58 semester hours)**

|  |    |
|--|----|
| English 1113, 1123, six semester hours of sophomore literature ..... | 12 |
| History 1133, 1233 .....   | 6  |
| Physical Education or ROTC .....                                     | 4  |
| Political Science 1333, 1433 .....                                   | 6  |
| Psychology 1103, 2203 .....  | 6  |
| Sociology 1133 .....   | 3  |
| Speech 1133 .....  | 3  |
| 12 semester hours from at least two of the following:                |    |
| Foreign language (six semester hours minimum in one language)        |    |
| Mathematics  |    |
| Science .....  | 12 |
| Free Electives .....   | 6  |
|  | —  |
|  | 58 |

Any courses completed in satisfying the 58 semester hour requirement in the above foundations may be counted in the first or second teaching field.

**Professional Development (12 semester hours)**

|  |    |
|--|----|
| 3333. The Psychology of Adolescence .....                | 3  |
| 3433. The Secondary School Curriculum .....              | 3  |
| 4423. Methods of Teaching in the Secondary Schools ..... | 3  |
| 4573. Psychological and Educational Tests .....          | 3  |
|  | —  |
|  | 12 |

**Student Teaching** (6 semester hours)

|  |   |
|--|---|
| 4526. Student Teaching in the Secondary School ..... | 6 |
|  | — |
|  | 6 |

**ACADEMIC SPECIALIZATION**

**Guidance Studies — First Teaching Field** (27 semester hours)

|                                      |    |
|--------------------------------------|----|
| 2033. Educational Psychology .....   | 3  |
| 2153. Introduction to Guidance ..... | 3  |
| 3153. Career Development .....       | 3  |
| 3523. Group Guidance .....           | 3  |
| 4533. Practicum in Guidance .....    | 3  |
| 3603. Psychology .....               | 3  |
| 4203. Psychology .....               | 3  |
| Six hours from:                      |    |
| 3433. Sociology                      |    |
| 4133. Sociology                      |    |
| 3403. Psychology .....               | 6  |
|                                      | —  |
|                                      | 27 |

**Second Teaching Field** (24-28 semester hours)

See page 129 for specific requirements.

**REQUIREMENTS FOR THE BACHELOR OF SCIENCE IN EDUCATION DEGREE**

**SECONDARY EDUCATION**

**Academic Foundations** (58 semester hours)

|  |    |
|--|----|
| English 1113, 1123, and six semester hours of sophomore literature ..... | 12 |
| History 1133, 1233 .....   | 6  |
| Physical Education or ROTC .....   | 4  |
| Political Science 1333, 1433 .....                                       | 6  |
| Speech 1133 .....  | 3  |
| 12 semester hours from at least two of the following: .....              | 12 |
| Foreign language (six semester hours minimum in one language)            |    |
| Mathematics, or  |    |
| Science  |    |
| Electives from the Department of Economics, the School of Humanities and |    |
| Social Sciences, or the School of Sciences and Mathematics .....         | 9  |
| Free electives .....   | 6  |
|  | —  |
|  | 58 |

Any courses completed in satisfying the 58 semester hour requirement in academic foundations above may also be counted in the first or second teaching field.

**Professional Development**

- Education 1033\*
- Education 2033\*

\*Students preparing for a B.S. in Ed. must complete Education 1033, 2033; students working toward a B.S., B.B.A., or B.A. degree may complete the requirements for certification by completing Education 3333, 3433, 4573, 4423, 4526 (six hours student teaching), academic foundations listed above and first and second teaching field requirements as outlined on the following pages.



Education 3333  
 Education 3433  
 Education 4423  
 Education 4573

**Student Teaching** Education 4526 ..... 6 hours

### ACADEMIC SPECIALIZATION

Two Plan I teaching fields or one Plan II integrated teaching field must be selected from the following approved teaching fields. After satisfying the requirements for a Plan I first teaching field, the additional teaching field may be selected from listed second teaching fields of approximately 24 hours, 12 of which must be advanced.

#### PLAN I. FIRST TEACHING FIELDS

##### **Art** (27 semester hours)

Art 1113, 1123, 4403; six hours of art history; 12 additional semester hours of which nine must be advanced. These hours are to be selected in consultation with the department chairman. The student will have experience in design, painting, and three-dimensional work; and theory and history of art. In addition each art education major will be required to have a one-man show during his senior year.

##### **Biology** (30 semester hours)

Biology 1144, 1344, 1544, 3033, 3144, 3333, 3533 and five hours, three of which must be advanced. General requirements must include Chemistry 1144, 1244.

##### **Chemistry** (28 semester hours)

Chemistry 1142, 1143, 1242, 1243, 2302, 2303, 3302, 3303, 3502, 3503; plus three advanced hours

##### **Drama** (30 semester hours)

Drama 1233\*, 1411, 1511, 1611, 2533, 3433, 3443; and 15 semester hours of which nine must be advanced

##### **Economics** (27 semester hours)

Economics 2333, 2433, 3323, 3333, 3703, 3743, 4743; plus six advanced hours

##### **English** (36 semester hours)

English 1113, 1123; six semester hours of sophomore literature; one linguistics course from 3513, 4513, 4523, 4753, 4763; and 21 additional semester hours of which 15 must be advanced

##### **French** (30 semester hours)

French 1133, 1233, 2133, 2233; and 18 additional semester hours of which 12 must be advanced

##### **German** (30 semester hours)

German 1133, 1233, 2133, 2233; and 18 additional semester hours of which 12 must be advanced

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\*May be taken either for speech or for drama credit, but not for both.

**Health & Physical Education** (31 semester hours)

Seven activity courses, Health and Physical Education 1033, 1203, 2213, 3313, 3603, 4613, 4643; and three advanced semester hours of electives in health and physical education. General requirements must include Biology 1133, 1233 unless biology major or minor.

**History** (30 semester hours)

History 1133, 1233, 1333, 1433. Select at least three hours from American History 3013, 3023, 3033, 4023, 4033, 4043, 4053, 4073, 4133, 4143, 4153, 4333, 4343, 4603, 4613, 4723; three hours in European History from 3133, 3143, 3233, 3503, 3513, 4213, 4223, 4243, 4253, 4263, 4273, 4333, 4433, 4503, 4523, 4713; three hours in Non-Western History from 3803, 3813, 3833, 3843, 4173, 4183, 4803; and nine additional advanced hours

**Mathematics** (30 semester hours)

Mathematics 1533, 1633, 1733, 2533, 3133, 3293; 12 additional hours of which at least six must be advanced

Students not qualified for advanced placement may begin the mathematics sequence of courses with Mathematics 1233.

**Physics** (24 semester hours)\*

Physics 1624, 2644, 3034, 3124, 3134; plus four advanced hours selected with the department adviser

**Political Science** (30 semester hours)

Political Science 1333, 1433; select six hours from 2523, 3233, 3443, 3733, 3843, 3933, 4013, 4133, 4153, 4163, 4233, 4243; three hours in comparative government from 3533, 3553, 4733, 4743, 4753; three hours in international relations from 3633, 3653, 4333, 4853, 4933; three hours in theory from 4023, 4533, 4543, 4553; and nine advanced hours

**Psychology** (30 semester hours)

Psychology 1103, 2203, 3003, 3313, 3403, 3603; 4303 or 4703; and nine additional semester hours

**Sociology** (30 semester hours)

Anthropology 1233; Sociology 1133, 2233, 3313, 3433, 3633, 3733, 4133; and six semester hours from Sociology 3403, 3413, 4433, 4533 and Anthropology 4143

**Spanish** (30 semester hours)

Spanish 1133, 1233, 2133, 2233; and 18 hours of which 12 must be advanced

**Speech** (30 semester hours)

Speech 1133, 1233\*\*, 2023, 2133\*\*, 3023; and 15 semester hours of which nine must be advanced\*\*\*

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\*Students having completed Physics 1144 and 1244 should see departmental adviser prior to enrolling in other physics courses.

\*\*May be taken either for speech credit or for drama credit, but not for both.

\*\*\*By the end of the sophomore year, a speech or drama major or minor must pass an oral proficiency test in his use of his own voice and diction. If he fails this test, he must repeat it each semester until he passes it. If he becomes a major or minor in the junior year or later, he must take the test within one semester thereafter. A student will not be approved for practice teaching until he has passed the test.

**PLAN I. SECOND TEACHING FIELDS****Art** (24 semester hours)

Art 1113, 1123, 4403; six semester hours of art history; and nine advanced semester hours to be selected in consultation with the department adviser. The student will have experience in design, painting, and three-dimensional work; and in the theory and history of art.

**Biology** (25 semester hours)

Biology 1144, 1344, 1544, 3033, 3144, 3333, 3533; General requirements must include Chemistry 1144, 1244.

**Chemistry** (28 semester hours)

Chemistry 1142, 1143, 1242, 1243, 2302, 2303, 3302, 3303, 3502, 3503; plus three advanced hours

**Computer Science** (25 semester hours)

Computer Science 2013, 2033, 3103, 3833, 4103; Business Administration 1114, 2113; Computer Science 3533 or Business Administration 3313

**Drama** (24 semester hours)

Drama 1233\*, 1411, 1511, 1611, 2533, 3433, 3443; nine semester hours of which six must be advanced

**Economics** (24 semester hours)

Economics 2333, 2433, 3323, 3333, 3703; select three hours from 3743, 4743; plus six advanced hours

**English** (27 semester hours)

English 1113, 1123, six hours sophomore literature, one linguistics course from 3513, 4513, 4523, 4753, 4763; 12 additional hours of which nine must be advanced. Course work will indicate a knowledge of literary genres and historical development literature.

**French** (24 semester hours)

French 1133, 1233, 2133, 2233; and 12 advanced hours

**German** (24 semester hours)

German 1133, 1233, 2133, 2233; and 12 advanced hours.

**Health and Physical Education** (25 semester hours)

Four activity courses, 1033, 1203, 2213, 3313, 3603; and six advanced hours. General requirements must include Biology 1133, 1233 unless biology major or minor.

**History** (24 semester hours)

History 1133, 1233, 1333, 1433. Select at least three hours from American History 3013, 3023, 3033, 4023, 4033, 4043, 4053, 4073, 4133, 4143, 4153, 4233, 4343, 4603, 4613, 4723; three hours in European History from 3133, 3143, 3233, 3503, 3513, 4213, 4223, 4243, 4253, 4263, 4273, 4333, 4433, 4503, 4523, 4713; and six additional advanced hours

**Journalism** (24 semester hours)

Journalism 1233, 1243, 2233, 2633, 4643; and nine advanced semester hours from 3023, 3033, 3043, 3103, 3633, 3643, 3653, 3723, 4133, 4203, 4633, 4653, and 4683

**Life-Earth Science** (26 semester hours)

Biology 1144 or 1344; 1544; select six hours from Biology 3133, 3333 plus 3331, 3433, 3533, 4133, 4683; Geology 1033; 1133 or 1233; 3023; select one course from Geology 3133, 3534, 4734 (Certification will be for grades 7 & 8 only)

**Mathematics** (24 semester hours)

Mathematics 1533, 1633, 1733, 3133, 3293; and nine additional hours of which six must be advanced

Students not qualified for advanced placement may begin the mathematics sequence of courses with Mathematics 1233.

**Physics** (24 semester hours)\*

Same as for Plan I. First Teaching Fields

**Political Science** (24 semester hours)

Political Science 1333, 1433; six hours in American government from 2523, 3233, 3443, 3733, 3843, 3933, 4013, 4133, 4153, 4163, 4233, 4243; three hours in comparative government from 3533, 3553, 4733, 4743, 4753; three hours in international relations from 3633, 3653, 4333, 4853, 4933; three hours in theory from 4023, 4533, 4543, 4553; and three advanced hours

**Psychology** (24 semester hours)

Psychology 1103, 2203, 3003, 3313, 3403, 3603; and six additional semester hours of which three must be advanced

**Sociology** (24 semester hours)

Anthropology 1233; Sociology 1133, 2233, 3433, 3733, 4133; and six semester hours of which three must be advanced from Sociology 3313, 3413, 3633, 4433, 4533 and Anthropology 4143

**Spanish** (24 semester hours)

Spanish 1133, 1233, 2133, 2233; and 12 advanced hours

**Speech** (24 semester hours)

Speech 1133, 1233\*\*, 2023, 2133\*\*, 3023 plus nine advanced hours

**PLAN II. INTEGRATED TEACHING FIELDS****Business** (57 semester hours)

Secretarial Administration 1123, 1223, 1233, 1333, 1433, 2223, 4403, 4433; Accounting 2144, 2244, 3103 or 4073; Business Administration 1114, 3213, 3223, 3233, 3243; Economics 2333, 2433

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\*Students having completed Physics 1144 and 1244 should see departmental adviser prior to enrolling in other physics courses.

\*\*May be taken either for speech credit or for drama credit, but not for both.



**General Science** (55-59 semester hours)

General Science core required plus select one of the three options listed below:

**General Science Core:**

Chemistry 1142, 1143, 1242, 1243

Physics 1144, 1244 or 1624, 2644

Geology 1133, 1233

Biology 1144, 1544

Option 1: Biology 1344, 3033, 3144, 3333, 3533 plus six advanced hours of biology

Option 2: Chemistry 2302, 2303, 3302, 3303, 3502, 3503, 4243 plus five advanced hours in any science

Option 3: Physics 3034 plus 15 additional advanced hours in physics (requires Physics 1624 and 2644)

**Social Science** (60 semester hours)

History 1133, 1233, 1333, 1433; Political Science 1333, 1433; additional history and political science courses to total 24 hours in one of these and additional hours to total 18 in the other subject; Economics 2333, 2433; Geography 3003 or 3013; six semester hours of sociology; three semester hours of electives from economics, sociology and geography. Eighteen semester hours of this requirement must be advanced hours.

If the option for 24 hours in history is chosen, at least one course must be from Russian, 19th century or contemporary European history; one course from contemporary United States, or other advanced period courses in United States history; and one course from Latin American, Asian, or other non-western history. All upper division courses must be approved by the student's adviser.

If political science is selected, at least one advanced course must be included from each of the fields of American government, comparative government, international relations, and theory.

**DRIVER EDUCATION**

A driver education designation may be added as an additional specialization area of any teaching certificate provided the student completes Physical Education 3503 and 4503.

**ALL LEVEL CERTIFICATION PROGRAM FOR HEALTH AND PHYSICAL EDUCATION****Academic Foundations** (58 semester hours)

|   |    |
|---|----|
| English 1113, 1123, and six semester hours of<br>sophomore literature ..... | 12 |
| Physical Education .....  | 4  |
| History 1133, 1233 .....  | 6  |
| Political Science 1333, 1433 .....  | 6  |
| Speech 1133 or 1233 .....   | 3  |

|   |    |
|---|----|
| 12 semester hours from at least two of the following: .....   | 12 |
| Foreign language (six semester hours minimum in one language)   |    |
| Mathematics   |    |
| Science   |    |
| Electives from the Department of Economics, the School of Humanities and Social Sciences or the School of Science and Mathematics ..... | 9  |
| Free electives .....  | 6  |
|   | —  |
|   | 58 |

**Professional Education** (12 semester hours)

Education 3133, 3333 plus 3233 or 3433, and three semester hours from 4003, 4203, 4313, 4343, 4423, 4833

**Directed Student Teaching** (6 semester hours)

Education 4333, 4513

**Health and Physical Education** (31 semester hours)

Seven activity courses; Health 1203, 2203, 2213, 3313, 3603, 4643, 4663; and three hours of electives. General requirements must include Biology 1133, 1233 unless biology major or minor.

**Minor** (24-27 semester hours)

In order to teach in the minor field at the secondary level, an all-level physical education major must select a minor from Plan I Secondary Teaching Fields and must complete 18 advanced hours of secondary education and 24 hours of secondary physical education with at least 12 hours being advanced.

**ALL LEVEL CERTIFICATION FOR ART AND MUSIC**

**Academic Foundations** (58 semester hours)

|   |    |
|---|----|
| English 1113, 1123, and six semester hours of sophomore literature .....  | 12 |
| Physical Education or ROTC .....  | 4  |
| History 1133, 1233 .....  | 6  |
| Political Science 1333, 1433 .....  | 6  |
| Speech 1133 or 1233 (voice training will satisfy speech requirement for music majors) .....   | 3  |
| 12 semester hours from two of the following: .....  | 12 |
| Foreign language (six hours minimum in one language)  |    |
| Mathematics   |    |
| Science   |    |
| Electives from the Department of Economics, the School of Humanities and Social Sciences, or the School of Sciences and Mathematics ..... | 9  |
| Free electives .....  | 6  |
|   | —  |
|   | 58 |

**Professional Education** (12 semester hours)

Education 3133, 3333 plus 3233 or 3433, and three semester hours from 4003, 4203, 4313, 4343, 4423, 4833

**Directed Student Teaching** (6 semester hours)

Education 4333, 4513

**Art** (48 semester hours)

Art 1113, 1123, 1313 or 1323, 1413, 2213 or 3313, 2513 or 2523; nine semester hours of art history from 2413, 2423, 3433, 3443, 4413; plus 4303, 4403; a minimum of six semester hours of painting from 2313, 2323, 3333, 4313, 4323; three semester hours of printmaking; three semester hours of ceramics and sculpture; three semester hours of lettering and advertising from 2713, 2723, 3713. Each art education major will be required to have a one-man show during the senior year.

**Music** (60 semester hours)

Music 1603, 1613, 2603, 2613, 3622, 3662, 4703, 4713, 4813, 4823, 4843, 4853. Performance concentration, eight to 16 hours (1 or 2 each semester). Secondary performance: 1142, 1152, 1162 or 1172, 1182 or 1192, and six hours in two of the following not represented by the performance concentration: voice, piano or organ, woodwinds, brass and percussion, strings. Music Laboratory: participation each semester for a minimum of six semester hours, accumulated through enrollment for a maximum of one semester hour each semester. Each student must reach a satisfactory level of achievement on his major performing medium, and must pass the secondary piano proficiency examination.

**ALL LEVEL CERTIFICATION PROGRAM FOR SPEECH AND HEARING THERAPY****Academic Foundations** (49 semester hours)

|   |    |
|---|----|
| English 1113, 1123, and six semester hours of<br>sophomore literature ..... | 12 |
| Physical Education or ROTC .....  | 4  |
| History 1133, 1233 .....  | 6  |
| Political Science 1333, 1433 .....  | 6  |
| 12 semester hours from at least two of the following: .....                 | 12 |
| Foreign language (six semester hours minimum in one language)               |    |
| Mathematics   |    |
| Science   |    |
| Electives .....   | 9  |
|   | —  |
|   | 49 |

**Professional Education\*** (18 semester hours)

Education 3133, 3233 or 3433, 3333, 3613, and six semester hours from 4123, 3923, 4593

**Directed Student Teaching** (6 semester hours)

Education 4433, 4443

\*B.A. candidates are required to take Education 3133, 3233 or 3433, 3333, 3613 and three semester hours from 3923, 4123, 4593.

**Speech and Hearing Therapy** (33 semester hours)

Speech 1133, 1233, 2603, 2613, 3623, 3633, 3643, 4213, 4653, 4663, 4673  
Observation: 50 clock hours. Clinical practice: 200 clock hours. 100 clock hours may be earned with student teaching.

**Minor** (18 semester hours)

Psychology strongly recommended as a minor. Students who do not minor in psychology must take Education 4713 or Psychology 3003.

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## GRADUATE PROGRAMS

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**ELEMENTARY**

The requirements for the degree or Master of Education with a major in elementary education are as follows:

**General** (see page 306)

Additionally, the candidate must have achieved the provisional elementary certificate, or equivalent, before entering the graduate program.

**Departmental****Requirement for Conversion**

Applicants whose undergraduate preparation was in secondary education must present a minimum of 18 hours preparation in acceptable courses in elementary education, including courses in child psychology (Education 3133) and elementary curriculum (Education 3233) before enrolling in the graduate program.

**Plan I. Major:** 12 semester hours in professional education including 5753, 6983, 6993, 5623 or 6233

**Minor:** 12 semester hours in one subject included in the elementary school curriculum

**Resource Area:** Six semester hours of graduate work which provide background for the minor, or in courses chosen to extend the candidate's preparation in a subject matter field other than his minor. This may include courses in elementary content.

**Plan II. Major:** 18 semester hours of approved course work in the field of education including 5623, 5753, 6233, 6673 or Anthropology 4143G, and 6753. Each candidate is required to submit a satisfactory research paper directly related to some phase of his graduate program.

**Minor:** 12 semester hours in reading or in one subject included in the elementary school curriculum (see page 307 for program with reading as minor)

**Resource Area:** Six semester hours of graduate work which provide background for the minor, or in courses chosen to extend the candidate's preparation in a subject matter field other than his minor. This may include courses in elementary content.



**SECONDARY**

The requirements for the degree of Master of Education with a major in secondary education are as follows:

**General** (see page 306)

Additionally, the candidate must have achieved the provisional secondary certificate, or equivalent, before entering the graduate program.

**Departmental****Requirement for Conversion**

Applicants whose undergraduate preparation was in elementary education must present a minimum of nine hours in acceptable secondary education courses including adolescent psychology (Education 3333) and secondary curriculum (Education 3433) before beginning a graduate major.

**Plan I. Major:** 12 semester hours in professional education including 5753, 6983, 6993, 5013 or 5633

**Minor:** 12 semester hours of 5000 and 6000 level courses in one subject included in the secondary school curriculum

**Resource Area:** Six semester hours of graduate work which will provide background for the minor

**Plan II. Major:** 18 semester hours of approved course work in the field of education including 5013, 5633, 5753, 6673 or Anthropology 4143G, 6753 and three semester hours of electives from graduate secondary or foundation courses. Each candidate is required to submit a satisfactory research paper directly related to some phase of his graduate program.

**Minor:** 12 semester hours of 5000 and 6000 level courses in one subject included in the secondary school curriculum

**Resource Area:** Six semester hours of graduate work which will provide background for the minor

**ALL LEVEL**

The requirements for the degree of Master of Education with a major in all-level music are as follows:

**General** (see page 306)

Additionally, the candidate must have achieved the provisional all-level certificate, or equivalent, before entering the graduate program.

**Departmental****Requirement for Conversion**

Applicants must present a minimum of six hours of acceptable elementary education courses and six hours of acceptable secondary courses before beginning a graduate major.

**Plan II. Major:** 18 semester hours of approved course work in the field of education, including 5753 and one of the following options: (1) Education 5623 and an advanced professional secondary education course, or (2) Education 5633 and an advanced professional elementary education

course. Each candidate is required to submit a satisfactory research paper directly related to some phase of his graduate program.

**Minor:** 12 semester hours of 5000 and 6000 level courses in music including 5933 and 5923. Six additional semester hours to be selected from 5603, 5623, 5743, 5763, 5803, 6853, 6863

**Resource Area:** Six semester hours of graduate work which will provide background for the minor

## COUNSELING

The requirements for the degree of Master of Education with a major in counseling are as follows:

**General** (see page 306)

### Departmental

Applicants for the Master of Education degree in counseling and Texas Counselor's Certificate must present the following minimum criteria for acceptance into the graduate program:

1. Bachelor's degree and provisional Texas Teacher Certificate or equivalent
2. Satisfactory completion of the Graduate Record Examination required of all graduate students
3. A grade point average of 3.0 in both undergraduate education courses and major teaching field, in case of secondary majors and academic specialization for elementary teachers
4. One year of successful teaching experience before beginning the program, and three years before certification; appropriate exceptions for non-certificated program
5. Personal and social fitness for the position of counselor as measured by the Minnesota Multiphasic Personality Inventory and/or other tests selected by the committee
6. Approval of standing selection committee based on above and any other pertinent information concerning the application including a personal interview

A standing committee of three professors will carefully screen all applicants based on criteria stated above and any additional standards developed by the committee.

No student will be permitted to enroll in the following courses until he has been admitted into the counselor program:

- 5703 Techniques of Counseling
- 5723 Advanced Psychological and Educational Tests
- 6703 Individual Testing I
- 6713 Practicum

**Exceptions:** Certain students needing additional study in counseling, but not interested in completing a Master of Education degree, may be approved for enrollment in these courses if they meet one of the conditions stated below:

- (1) Persons, already certified as counselors, returning for additional work

- (2) Persons eligible for counselor certification under Texas Teacher Certification Laws prior to 1955
- (3) Persons whose professional duties require college study in this area

The graduate program in counseling will require 36 semester hours as follows:

|                |  |   |
|----------------|--|---|
| Education 5533 | Principles of Guidance .....                       | 3 |
| Education 5703 | Techniques of Counseling .....                     | 3 |
| Education 5723 | Advanced Psychological and Educational Tests ..... | 3 |
| Education 5733 | Exceptional Children .....                         | 3 |
| Education 5753 | Human Growth and Development .....                 | 3 |
| Education 5763 | Group Techniques .....                             | 3 |
| Education 5833 | Vocational and Educational Information .....       | 3 |
| Education 6673 | Teaching the Educationally Disadvantaged .....     | 3 |

OR

|                    |  |   |
|--------------------|--|---|
| Anthropology 4143G | Multicultural Context of Education ..... | 3 |
| Education 6703     | Individual Testing I .....               | 3 |
| Education 6713     | Practicum in Counseling .....            | 3 |
| Education 6753     | Research in Education .....              | 3 |

Graduate level courses in education, philosophy, psychology, sociology and other fields approved by departmental adviser, which will contribute to student's program .....

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## READING EDUCATION

The requirements for the degree of Master of Education with a major in Reading Education are as follows:

**General** (see page 306)

### Departmental

The Master of Education degree in Reading Education qualifies the recipient for Professional Certification as a Reading Specialist provided an elementary, junior high, or high school provisional certificate is held and three years of classroom teaching in an accredited school has been completed.

The graduate program requires 36 semester hours as follows:

15 semester hours in graduate reading

|                |   |
|----------------|---|
| Education 6233 | Seminar in Reading Instruction in the Elementary Schools                  |
| Education 6253 | Remedial Reading Methods  |
| Education 6263 | Advanced Developmental Reading  |
| Education 6273 | Diagnostic Reading Procedures: Standardized-informal and Individual-group |
| Education 6283 | Clinical or Laboratory Practicum in Reading                               |

Six semester hours in resource area

Anthropology 4143 Multicultural Context of Education

OR

Education 6673 Teaching the Educationally Disadvantaged

English 4523 Introduction to Linguistics

OR

English 4513 History of the English Language

**12 semester hours professional education**

Education 5753 Human Growth and Development

\*Education 5623 Advanced Elementary School Curriculum Development

OR

\*Education 5633 Advanced Secondary School Curriculum Development

Education 6703 Individual Testing

Education 6753 Research in Education

**Three semester hours electives**

(Education 4573 or 5723 is required if not taken previously)

**READING EDUCATION taken as a minor**

Reading may be used as a minor on the Master of Education degree with a major in Elementary Education.

The graduate program requires 36 semester hours as follows:

**Major**

Education 5753 Human Growth and Development

Education 5623 Advanced Elementary School Curriculum Development

Education 6233 Seminar in Reading Instruction in the Elementary Schools

Education 6673 Teaching the Educationally Disadvantaged

OR

Anthropology 4143 Multicultural Context of Education

Education 6753 Research in Education

Plus three semester hours approved Professional Education (Education 4573 or comparable prerequisite required)

**Minor**

Education 6253 Remedial Reading Methods

Education 6263 Advanced Developmental Reading

Education 6273 Diagnostic Reading Procedures: Standardized-informal and Individual-group

Education 6283 Clinical or Laboratory Practicum in Reading

**Resource Area**

Six semester hours of graduate work which provide background for the minor, or in courses chosen to extend the candidate's preparation in a subject matter field other than his minor. This may include courses in elementary content.

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\*Provisional Elementary certification holders are required to take Education 5633, while individuals holding provisional certification at the junior high and/or high school level are required to take Education 5623.



## SCHOOL ADMINISTRATION

The requirements for the degree of Master of Education with a major in School Administration are as follows:

**General** (see page 306)

### Departmental

Applicants for the Master of Education degree in School Administration and Texas Professional Certificate (Mid-management) must present the following minimum criteria for acceptance into the graduate program:

1. Bachelor's degree and provisional Texas Teacher Certificate or equivalent
2. Satisfactory completion of the Graduate Record Examination required of all graduate students
3. One year of successful teaching experience before admission to the program, and three years before certification; appropriate exceptions for non-certificated program
4. A screening interview and/or examination by a committee of graduate Education faculty

The graduate program in School Administration will require 45 semester hours as follows:

- Education 5603 Introduction to School Administration
- Education 5613 School Law and Public Relations
- Education 5623 Advanced Elementary School Curriculum Development
- Education 5633 Advanced Secondary School Curriculum Development
- Education 5643 Administration of Facilities, Funds, and Special Programs
- Education 5753 Human Growth and Development
- Education 5673 Administration of Elementary Schools
- Education 5683 Administration of Secondary Schools
- Education 5653 Administration of Career, Vocational-Technical, and Special Education
- Education 5693 Internship in School Administration
- Education 6673 Teaching the Educationally Disadvantaged
- OR
- Anthropology 4143 Multicultural Context of Education
- Education 6753 Research in Education

Select three hours from the following:

- Education 5773 Reading Instruction in the Secondary Schools
- Education 6233 Seminar in Reading Instruction in Elementary Schools
- Education 6253 Remedial Reading Methods

Select six semester hours of advance credit earned after the baccalaureate degree from the following:

- |                              |                             |
|------------------------------|-----------------------------|
| Business Administration 3213 | Applied Business Statistics |
| Economics 4633               | Urban Economic Problems     |

Mathematics 3573  
 Political Science 4133  
 Sociology 3903  
 Sociology 4133  
 Sociology 4433

Probability and Statistics  
 Public Administration  
 Social Organizations  
 Minority Groups  
 Social Stratification

### SPECIAL EDUCATION

The requirements for the degree of Master of Education with a major in special education are as follows:

**General** (see page 306)

#### Departmental

The Master of Education degree in Special Education qualifies the recipient for Professional Certification as an Educational Diagnostician provided three years of classroom teaching has been completed in an accredited school. Applicants for the Master of Education degree in special education and Texas Educational Diagnostician's Certificate must present the following minimum criteria for acceptance into the graduate program:

1. Bachelor's degree and provisional Texas Teacher Certificate or equivalent
2. Satisfactory completion of the Graduate Record Examination required of all graduate students
3. A grade point average of 3.0 in both undergraduate education courses and major teaching field, in case of secondary majors and academic specialization for elementary teachers
4. A committee will screen applicants based on selected criteria.

The program consists of 36 semester hours as follows:

Education 5593 Physiological and Psychological Aspects of Children  
 with Language and/or Learning Disabilities

Education 5713 Theories of Learning

Education 5733 Exceptional Children

Education 5753 Human Growth and Development

Education 5923 Psychology of the Mentally Retarded

Education 5933 Identification and Appraisal of Exceptional Children

Education 6233 Seminar in Reading Instruction in the Elementary  
 School

Education 6703 Individual Testing I

Education 6723 Individual Testing II

Education 6753 Research in Education

Education 6673 Teaching the Educationally Disadvantaged

OR

Anthropology 4143 Multicultural Context of Education

Select six hours from the following:

H,PE&R 5033 Problems in Teaching Adaptive Physical Education

Education 5823 Teaching Children with Language and/or Learning  
 Disabilities

Education 5943 Methods and Materials for Mentally Retarded Chil-  
 dren

If a student entering the program has had any of the previously described courses at an undergraduate level, he may with approval of his committee, select one of the following courses that would be appropriate:

|                |   |
|----------------|---|
| Speech 4673    | Organic Speech and Language Disorders                   |
| Education 4203 | Reading in the Elementary School                        |
| Education 4773 | Reading Instruction in Secondary School                 |
| Education 5433 | Mental Hygiene  |
| Education 5573 | Psychological and Educational Tests                     |
| Education 5723 | Advanced Psychological and Educational Tests            |
| Education 5833 | Vocational and Educational Information                  |
| Education 5953 | Vocational Adjustment Programs for Exceptional Children |
| Education 6243 | Problems and Theories of Elementary Education           |
| Education 6253 | Remedial Reading Methods                                |

## COURSES IN EDUCATION

### PRE-PROFESSIONAL

#### 1033. Introduction to Education 3 (3-0)

A survey of the development and present status of the American public school system. An introduction to the aims, organization, personnel, procedures, and techniques of education; familiarization with some of the problems of teaching at the various levels; the place of the teacher in a democracy.

#### 2033. Educational Psychology 3 (3-0)

A pre-professional course, designed primarily for potential teachers; deals with the problems of learning, the learner, how he learns, his growth and development, individual differences, and desired outcomes.

#### 2153. Introduction to Guidance 3 (3-0)

Designed primarily to acquaint students with the broad field of guidance in the public schools. Special emphasis will be placed on the guidance activities to be the responsibility of bachelor level guidance personnel.

### PROFESSIONAL

#### FOR UNDERGRADUATE CREDIT ONLY

#### ELEMENTARY

#### 3133. Child Development 3 (3-0)

Development of the "whole child" — physical, mental, emotional, social and moral — from the prenatal period through preadolescence; emphasis given to the educational implications at each level of development.

#### 3613. Education of Exceptional Children 3 (3-0)

A preparatory experience for the trainee dealing with the entire field of special education which surveys giftedness, learning disabilities and types of mental, physical, emotional, and social disabilities. Field experience and observation are stressed.

**4103. Education of Young Children: Introduction** (formerly 3713) 3 (3-0)

Philosophy, objectives, standards, and teaching procedures in educating the young child will be presented. A survey of current practices, programs, and innovations in education are also included.

**4133. Field Experiences in Elementary Schools** (formerly Observation) 3 (3-0)

Prerequisites: Education 3133, 3233.

Student Aide in public schools and observations in child welfare community institutions; study of school organization, daily planning, classroom management and democratic control; re-evaluation of the student's attributes for teaching, professional ethics.

**4263-6. Student Teaching in the Elementary School** 3 or 6 semester hours

Prerequisites: Senior standing, approval of the department chairman, and a grade point average of 2.5 in education courses is required.

Teaching under supervision in a public elementary school; meets one-half day for approximately 16 weeks, including orientation; or full day for approximately eight weeks, including orientation; orientation and supervision by college instructor.

**4333. Student Teaching, Elementary All-Level** 3 semester hours

Prerequisites: Senior standing, approval of the department chairman, and a grade point average of 2.5 in education is required.

Teaching art, music or physical education under supervision in a public elementary school; meets approximately one-half day for eight weeks or a full day for four weeks, including orientation; orientation and supervision by college instructor.

**4433. Student Teaching in Speech and Hearing Therapy:****Elementary**

3 semester hours

Prerequisites: Senior standing and approval of department chairman. A grade point average of 2.5 in education courses and speech and hearing courses is required.

Student teaching must be done with a speech therapist in an approved setting.

**4443. Student Teaching in Speech and Hearing Therapy:****Secondary**

3 semester hours

Prerequisites: Senior standing and approval of department chairman. A grade point average of 2.5 in education courses and speech and hearing courses is required.

Student teaching must be done with a speech therapist in an approved setting.

**4623. Student Teaching in Special Education: LLD** 3 semester hours

Prerequisites: Senior standing and approval of department chairman. A grade point average of 2.5 in education courses is required.

Student teaching must be done in classrooms specifically designed for children with language and/or learning disabilities.

**4653. Student Teaching in Special Education: MR** 3 semester hours

Prerequisites: Senior standing and approval of department chairman. A grade point average of 2.5 in education courses is required.



Three semester hours of student teaching must be done in the special education classroom for the mentally retarded.

**4743. Student Teaching in Kindergarten** 3 semester hours

Prerequisites: Senior standing and approval of the department chairman. A grade point average of 2.5 in education courses is required.

Three semester hours of student teaching must be done in kindergarten classroom.

**SECONDARY**

**3333. The Psychology of Adolescence** 3 (3-0)

Major problem areas to which adolescents must adjust and the role or responsibility of the school in dealing with adolescents.

**4513. Student Teaching, Secondary All-Level** 3 semester hours

Prerequisites: Senior standing and approval of the department chairman. A grade point average of 2.5 in education courses is required.

Teaching art, music or physical education under supervision in a public secondary school; meets approximately one-half day for eight weeks or a full day for four weeks, including orientation; orientation and supervision by college instructor.

**4523-6. Student Teaching in the Secondary School** 6 semester hours

Prerequisites: Senior standing and the approval of the department chairman. A grade point average of 2.5 in education courses is required.

Teaching under supervision in a public secondary school; assignment of student to subject matter field of his preparation; meets one-half day for approximately 16 weeks, including orientation; or a full day for approximately eight weeks, including orientation.

**4533. Practicum in Guidance** 3 (3-0)

Prerequisites: Education 2513, 3513, and 3523 (may be taken concurrently.) Senior standing and approval of the department chairman. A grade point of 2.5 in education courses is required.

Working under supervision in the guidance office of a public school.

**FOR UNDERGRADUATE OR GRADUATE CREDIT**

**ELEMENTARY**

**3233. Elementary School Curriculum** 3 (3-0)

Prerequisite: Education 3133.

Overview of the structure of basic areas in elementary school curriculum. History and philosophy of American education; review of learning principles; organization of plans for guiding learning; curriculum improvement; unit planning; records and pupil reports.

**3923. Psychology of the Mentally Retarded** (formerly 3623) 3 (3-0)

Nature and types of mental retardation. Special problems related to the understanding and instruction of the mentally retarded. The clinical aspects relative to mental retardation will be stressed.

**4003. Teaching Language Arts in the Elementary School** 3 (3-0)

Prerequisites: Education 3133, 3233.

Teaching of spelling, listening, writing (manuscript and cursive), oral and written language; examination of public school textbooks; lesson planning and demonstrations; collecting and organizing teaching materials.

**4123. Early Childhood: Development and Learning** (formerly 3723) 3 (3-0)

Growth and development during infancy and early childhood with emphasis on the young child's cognitive, social, emotional and physical growth. Directed observation and case studies of kindergarten children.

**4203. Teaching Reading in the Elementary School** 3 (3-0)

Prerequisites: Education 3133, 3233.

Nature of the reading process and the nature of the learner; instructional jobs in teaching reading at elementary grade levels; various types of reading difficulties — their causes and correction; demonstration of a reading lesson at a chosen grade level; review of research in the field of reading.

**4313. Teaching Mathematics in the Elementary School** 3 (3-0)

Prerequisites: Education 3133, 3233.

A comprehensive review of the fundamentals of arithmetic as well as a thorough study of methods of presenting arithmetic in a meaningful way; study of number systems and the historical aspects of numbers. Field experience required.

**4343. Teaching Social Studies in the Elementary School** 3 (3-0)

Prerequisites: Education 3133, 3233.

Study of man and his interaction with his social and physical environment; embrace material from subjects of history; geography, civics, science, and the arts; emphasizes values of democratic living and good human relations; attention to organization of effective learning experiences in social studies.

**4593. Physiological and Psychological Aspects of Children with Language and/or Learning Disabilities** 3 (3-0)

A study of the nature and causes of language and/or learning disabilities in children at all ages and ability levels and educational strategies appropriate for the disabilities.

**4733. Early Childhood and Kindergarten Education: Curriculum** 3 (3-0)

Prerequisite: Education 4123.

Planning the learning environment, developing learning activities, organizing the school day and interpreting children's growth to parents. Emphasis on child development goals, methodology, and physical facilities.

**4823. Teaching Children with Language and/or Learning Disabilities** (formerly 4663) 3 (3-0)

Prerequisite: Education 4593

A synthesizing practicum experience which includes diagnosis, educational planning, and treatment of a child who has a language and/or learning disability. Fee \$3.00.

**4833. Teaching Elementary School Science** 3 (3-0)

Prerequisites: Education 3133, 3233.

Methods, materials, and activities basic to a stimulating science program in the elementary school; extension of science content background for the teacher; evaluation of scope and sequence of elementary school science.

**4933. Identification and Appraisal of Exceptional Children** 3 (3-0)  
(formerly 4633)

Prerequisite: Education 3613, 3623, or 5733.

This will provide the trainee with a working understanding and interpretation of diagnostic and descriptive materials on an individual, and techniques for appraising and influencing the handicapped student's functioning in the classroom. Fee \$3.00.

**4943. Methods and Materials for Mentally Retarded Children** 3 (3-0)  
(formerly 4643)

Prerequisite: Education 3613, 3623, or 5733.

This will provide an intensive study of techniques and methodology and provide a background for the development of a curriculum for handicapped children. Secondary and elementary areas will be stressed with an awareness of remedial instruction.

**4953. Vocational Adjustment Programs for Exceptional Children** 3 (3-0)  
(formerly 4683)

Prerequisite: 4943 or equivalent.

Emphasis placed on techniques of evaluating vocational fitness, job placement, working with related disciplines, understanding the implications of vocational experiences on curriculum, on-job supervision of handicapped students and follow-up services to the student.

**SECONDARY****3433. The Secondary School Curriculum** 3 (3-0)

Prerequisite: Education 3333.

Consideration is given to the development of the modern secondary curriculum, its philosophy, objectives, functions, and techniques and procedures in evaluation.

**4423. Methods of Teaching in the Secondary Schools** 3 (3-0)

Prerequisites: Education 3333, 3433.

Acquisition and development of skills for effective teaching. Includes techniques of interpersonal communication, questioning, planning, simulation and discipline. Television is utilized.

**4773. Reading Instruction in Secondary Schools** 3 (3-0)

Prerequisite: Education 3333 and 3433 or approval of instructor.

Basic principles of reading instruction; nature and scope of total reading program; methods, materials, and organization of developmental and corrective reading programs at secondary level; reading skills in the content fields.

**EDUCATIONAL FOUNDATIONS****FOR UNDERGRADUATE OR GRADUATE CREDIT****3153. Career Development** 3 (3-0)

Prerequisite: Education 2513.

Both theoretical and methodological aspects of guidance essential to facilitating student career development. K-12 will be studied.

**3523. Group Guidance** 3 (3-0)

Prerequisites: Education 2513, 3513 (may be taken concurrently)

Designed to prepare the student for effective leadership of group guidance activities. Attention will be given to the use of groups in the orientation, testing, information, and consultation services of the guidance program.

**4373. Audio-Visual Methods and Materials** 3 (3-0)

Prerequisite: Elementary and secondary education majors who have been admitted to candidacy.

Care and use of teaching aids particularly suited for classroom use; preparation of teacher-made aids and demonstrations. Fee: \$5.00.

**4573. Psychological and Educational Tests** 3 (3-0)

Prerequisites: Education 3133 and 3233 or 3333 and 3433.

Elementary statistical techniques and their application to test scores; typical methods of measuring intelligence, aptitudes, personality, and achievement.

**4673. Teaching the Educationally Disadvantaged** 3 (3-0)

Prerequisite: Elementary and secondary education majors who have been admitted to candidacy.

A study of children and youth who are educationally disadvantaged, with emphasis upon appropriate teaching strategies. Survey of professional literature and research on deprived areas of the American culture with some focus on the psychological and social aspects. Field experience with focus on diagnosis and remediation of learning difficulties.

**4713. Theories of Learning** (formerly 4613) 3 (3-0)

Prerequisite: Senior standing in education.

Application of psychological principles to the cognitive, affective, and psychomotor educative processes. Learning theories and research are applied to cognition, motivation, transfer, readiness, memory, individual differences, social and emotional adjustment and evaluation.

**FOR GRADUATE CREDIT****5203. Educational Sociology** 3 (3-0)

A study of the American school system as a social institution; how the American school system is affected by its cultural environment.

**5373. Audio-Visual Methods and Materials** 3 (3-0)

Care and use of teaching aids particularly suited for classroom use; preparation of teacher-made aids and demonstrations. Fee: \$5.00.

**5433. Mental Hygiene** 3 (3-0)

Dynamics of human behavior with emphasis on conditions and procedures in the home, school, and society which are conducive to the development of mental and emotional health.

- 5573. Psychological and Educational Tests** 3 (3-0)  
Elementary statistical techniques and their application to test scores; typical methods of measuring intelligence, aptitudes, personality, and achievement.

- 5713. Theories of Learning** 3 (3-0)  
Application of psychological principles to the cognitive, affective, and psychomotor educative processes. Learning theories and research are applied to cognition, motivation, transfer, readiness, memory, individual differences, social and emotional adjustment and evaluation.

- 5753. Human Growth and Development** 3 (3-0)  
Review of literature dealing with the learning process; growth and development as related to behavior, learning, personality, and adjustment. To include methods of research and analysis.

- 6483. Supervision of Instruction** 3 (3-0)  
Techniques of supervision, designed for general and special supervisors, superintendents, principals, and classroom teachers.

- 6673. Teaching the Educationally Disadvantaged** 3 (3-0)  
A study of children and youths who are educationally disadvantaged, with emphasis upon appropriate teaching strategies. Survey of professional literature and research on deprived areas of the American culture, with some focus on the psychological and social aspects. Field experiences with focus on diagnosis and remediation of learning difficulties.

- 6753. Research in Education** 3 (3-0)  
Fundamental concepts and tools of research are applied to educational problems. Demonstration of research skills is required through the development of a formal paper.

## ELEMENTARY

- 5123. Early Childhood: Development and Learning** 3 (3-0)  
Growth and development during infancy and early childhood with emphasis on the young child's cognitive, social, emotional, and physical growth. Directed observation and case studies of kindergarten children.

- 5133. Early Childhood and Kindergarten  
Education: Curriculum** 3 (3-0)  
Prerequisite: Education 4123.

Planning the learning environment, developing learning activities, organizing the school day and interpreting children's growth to parents. Emphasis on child development goals, methodology, and physical facilities.

- 5343. Teaching Social Studies in the  
Elementary School** 3 (3-0)  
Study of man and his interaction with his social and physical environment; embrace material from subjects of history; geography, civics, science, and the arts; emphasizes values of democratic living and good human relations; attention to organization of effective learning experiences in social studies.



**5623. Advanced Elementary School Curriculum Development** 3 (3-0)

A study of the development of curriculum in the elementary school with an emphasis upon determinants, innovations and supervision.

**5783. Advanced Early Childhood and Kindergarten Education** 3 (3-0)

An evaluation of current practices, programs, and innovations in pre-school education with emphasis on principles of child development. Specific planning for organizing and carrying on appropriate and effective learning activities for kindergarten children.

**6243. Problems and Theories of Elementary Education** 3 (3-0)

Designed to assist the advanced student in formulating deeper understandings of problems affecting the elementary school; individual and group research on current problems and theories.

**6901, 6902, 6903. Problem Course** 1-3 semester hours

Designed to offer the advanced student in elementary education an opportunity to select a special area of interest in elementary education for intensive research. An acceptable paper on the area of research is required. May be repeated once for credit.

**6913. Seminar in Elementary Education** 3 (3-0)

Group and individual study of special areas of the elementary curriculum, social changes affecting the elementary schools, and methods of improving the teaching-learning situation. Individual oral and written reports required.

**6983, 6993. Thesis** 6 semester hours**SECONDARY****5013. Improvement of Instruction in the Secondary School** 3 (3-0)

Recent trends in teaching in the secondary school; emphasizes research in methods of teaching, organization of material, motivation, and student behavior.

**5633. Advanced Secondary School Curriculum Development** 3 (3-0)

A study of the development of the curriculum in the secondary school with emphasis upon determinants, innovations and supervision.

**6901, 6902, 6903. Problem Course** 1-3 semester hours

Designed to offer the advanced student an opportunity to select a special area of interest in secondary education for intensive research. An acceptable paper on the area of research is required. May be repeated once for credit.

**6923. Seminar in Secondary Education** 3 (3-0)

Theme as announced or jointly selected by the instructor and class. Major project of field study utilizing current research in field of secondary education.

**6983, 6993. Thesis** 6 semester hours**COUNSELING****5533. Principles of Guidance** 3 (3-0)

Areas of need for guidance and the responsibilities of teachers; methods and procedures helpful in doing individual and group guidance.

**5703. Techniques of Counseling**

3 (3-0)

Prerequisite: Admission to candidacy for counselor's certificate.

Designed to give administrators and counselors of public schools a theoretical background to various methods of counseling individuals.

**5723. Advanced Psychological and Educational Testing.**

3 (3-0)

Prerequisites: Admission to candidacy for counselor's certificate; Education 4573.

Group testing and scales used in the measurement of achievement, aptitude, intelligence, interest, and personality. Fee \$3.00

**5763. Group Techniques**

3 (3-0)

Designed to familiarize students with both theoretical and procedural aspects of effective group work in education. Primary emphasis given to uses in guidance and counseling.

**5833. Vocational and Educational Information**

3 (3-0)

Methods of collecting, filing, and using vocational and educational data; analysis of vocational and educational conditions and trends.

**6703. Individual Testing I**

3 (3-0)

Prerequisite: Education 4573 or consent of instructor.

Theories and methods of administering individual tests in evaluating individuals. Rationale and experience in administering, scoring and interpreting individual tests with primary emphasis on the Wechsler scales. Fee: \$4.00.

**6713. Practicum in Counseling**

3 (1-5)

Prerequisites: Teacher certification; 21 hours of prescribed courses for counselor certification.

Actual experience in testing and counseling under supervision of experienced personnel. Complete case studies written and discussed with the instructor.

**6723. Individual Testing II**

3 (3-0)

Prerequisite: Education 6703 or consent of instructor.

Rationale and experience in administering, scoring and interpreting individual tests with primary emphasis on the Binet scales. Fee: \$4.00.

**READING EDUCATION****5773. Reading Instruction in Secondary Schools**

3 (3-0)

Basic principles of reading instruction: nature and scope of total reading program; methods, materials, and organization of developmental and corrective reading programs at secondary level; reading skills in the content fields.

**6233. Seminar in Reading Instruction in the Elementary Schools**

3 (3-0)

Prerequisite: A course in reading or consent of instructor.

A basic survey providing opportunity for identification of basic reading skills and the examination and evaluation of reading programs and instructional methods and materials. Individual and group projects.

**6253. Remedial Reading Methods (formerly Psychological Foundation of the Reading Process)**

3 (3-0)

Prerequisite: A course in reading or consent of instructor.

Acquiring knowledge of methodology and materials useful in remediating reading disabilities. Emphasis on individualization techniques and acquisition of basic decoding and comprehension skills.

**6263. Advanced Developmental Reading** 3 (3-0)

Prerequisite: A course in reading.

In-depth exploration of ways of developing higher level cognitive abilities through reading; identification of the accelerated reader; study of current research with emphasis on improvement of reading instruction in the regular classroom. Emphasis on a comprehensive reading program will also include review of children and youth books for children and youths.

**6273. Diagnostic Reading Procedures: Standardized-informal and Individual-group** 3 (2-2)

Prerequisites: Education 6253, 6263.

Study and use of standardized and informal instruments for determining kinds of reading difficulties. Demonstrated competencies in the use of the test instruments, interview procedures, and report writing.

**6283. Clinical or Laboratory Practicum in Reading** 3 (2-2)

Prerequisites: Education 6253, 6263, 6273.

Designed to provide clinical practice in the correction of reading disabilities in a supervised situation. Skills necessary for the interpretation of diagnostic data to parents and school staff will be developed. Treatment given to reading disability cases is done under supervision.

## **SCHOOL ADMINISTRATION**

**5603. Introduction to School Administration** 3 (3-0)

An introduction to the study of school administration including an overview of the chief components.

**5613. School Law and Public Relations** 3 (3-0)

A study of the legal relationships among students, teachers, public schools and social institutions with special attention to the principles and practices of school public relations.

**5643. Administration of Business Affairs, Facilities, and Special Programs** 3 (3-0)

Advanced study in principles and practices of school finance, taxation, budgeting, fiscal management, school plant development and special programs.

**5653. Administration of Career, Vocational-Technical and Special Education** 3 (3-0)

A study of legal, academic, and administrative requirements for special programs in the public schools with emphasis on special, vocational-technical and career education.

**5663. Central Office Administration** 3 (3-0)

A study of the practices, problems and relationships relating to the central office administration.

**5673. Administration of Elementary Schools 3 (3-0)**

A study of the elementary school administrator as an educational leader; emphasizes the role of the elementary principal in school organization, pupil personnel problems, staff and community relations, and supervision.

**5683. Administration of Secondary Schools 3 (3-0)**

A study of the secondary school administrator as an educational leader; emphasizes the role of the secondary principal in school organization, pupil personnel problems, staff and community relations, supervision and professional obligations.

**5693. Internship in School Administration 3 (1-5)**

Prerequisite: Consent of Graduate Committee.

An intensive practical application of school administration principles in a school setting.

**SPECIAL EDUCATION****5593. Physiological and Psychological Aspects of Children with Language and/or Learning Disabilities 3 (3-0)**

A study of the nature and causes of language and/or learning disabilities in children at all ages and ability levels and educational strategies appropriate for the disabilities.

**5733. Exceptional Children 3 (3-0)**

Studying children who would profit greatly from methods other than those usually used in teaching normal individuals. Identifying, diagnosing, and providing appropriate services for gifted, mentally retarded, physically handicapped and maladjusted children.

**5823. Teaching Children with Language and/or Learning Disabilities 3 (3-0)**

A synthesizing practicum experience which includes diagnosis, educational planning, and treatment of a child who has a language and/or learning disability. Fee \$3.00.

**5923. Psychology of the Mentally Retarded 3 (3-0)**

Nature and types of mental retardation. Special problems related to the understanding and instruction of the mentally retarded. The clinical aspects relative to mental retardation will be stressed.

**5933. Identification and Appraisal of Exceptional Children 3 (3-0)**

This will provide the trainee with a working understanding and interpretation of diagnostic and descriptive materials on an individual, and techniques for appraising and influencing the handicapped student's functioning in the classroom. Fee \$3.00.

**5943. Methods and Materials for Mentally Retarded Children 3 (3-0)**

This will provide an intensive study of techniques and methodology and provide a background for the development of a curriculum for handicapped children. Secondary and elementary areas will be stressed with an awareness of remedial instruction.

**5953. Vocational Adjustment Programs for Exceptional Children 3 (3-0)**

Emphasis placed on techniques of evaluating vocational fitness, job placement, working with related disciplines, understanding the implications of vocational experiences on curriculum, on-job supervision of handicapped students and follow-up services to the student.



**DEPARTMENT OF HEALTH, PHYSICAL  
EDUCATION, AND RECREATION**

**Joe Henderson, Chairman** (134H Physical Education Building)  
Professors: Deupree, Henderson  
Associate Professors: Dudley, Flatt, Stockton  
Assistant Professors: Eoff, Jones  
Instructors: Patterson, Stone

**REQUIREMENTS FOR THE BACHELOR OF  
SCIENCE IN EDUCATION DEGREE**

Academic Foundations

|   |    |
|---|----|
| Biology 1133, 1233 .....  | 6  |
| English 1113, 1123; six hours of sophomore literature .....   | 12 |
| History 1133, 1233 .....  | 6  |
| Political Science 1333, 1433 .....  | 6  |
| Speech 1133 .....   | 3  |
| Six hours in foreign language or mathematics or three hours<br>in mathematics and three hours in science .....                                  | 6  |
| Electives from the Department of Economics, the School of<br>Humanities and Social Sciences, or the School of<br>Sciences and Mathematics ..... | 9  |
| Electives .....   | 6  |

**Physical Education Major** (31 semester hours)

Seven physical education activity courses Health and Physical Education 1033, 1203, 2213, 3313, 3603, 4613, 4643; and three hours advanced secondary electives in health and physical education.

**Second Teaching Field** (24-27 semester hours)

(see page 129)

**Professional courses in education** (24 semester hours)

Education 1033, 2033, 3333, 3433, 4423, 4573, 4526.

**MINORS IN PHYSICAL EDUCATION**

**Health and Physical Education Minor** (25 semester hours) Required for Secondary teacher certification

Four activity courses, 1033, 1203, 2213, 3313, 3603, and six advanced hours.

**Health and Physical Education Minor** (22 semester hours)

Required for Elementary majors.  
Three activity courses, 1301, 2203, 2213, 2303, 4513, 4663, and three hours advanced electives

**Health and Physical Education Minor** (22 semester hours)

Not for teacher certification.  
Four activity courses, 1033, 1203, 2213, and nine hours of electives of which six must be advanced.



**PHYSICAL EDUCATION REQUIRED**

Students are required to complete four semesters of physical education activities. See page 81 for military science requirements.

Students enrolled in physical education are required to have a regulation uniform for the various activity classes. The uniform may be obtained at the university bookstore. A fee is charged for all activity courses.

A student may be excused from the physical education requirements for the following reasons:

1. If the student is 25 years of age at the time of initial admission or if 25 years of age after two years layout in higher education at time of readmission
2. If the student is a veteran who has had 18 months of active military service
3. If the student is excused by the university physician. Students with disabling conditions should consult their physicians concerning enrolling in the adapted physical education course.
4. If the student completes **all** Midwestern State University work in classes meeting after 6:00 p.m.

**REQUIREMENTS FOR THE BACHELOR OF SCIENCE IN RECREATION ADMINISTRATION DEGREE****Basic Academic Foundations**

|                                    |    |
|------------------------------------|----|
| English 1113, 1123 .....           | 6  |
| History 1133, 1233 .....           | 6  |
| Political Science 1333, 1433 ..... | 6  |
| Education 3133 or 3333 .....       | 3  |
| Engineering Drawing 1133 .....     | 3  |
| Drama 4423 .....                   | 3  |
| Mathematics .....                  | 3  |
| Biology 1544, 2433, 3533 .....     | 10 |

Select 15 hours from the following fields exclusive of the minor: art, music, psychology, sociology, business administration, biology, or Spanish (not applicable to students who select the interdisciplinary minor)

Additional free electives to bring the total hours to a minimum of 124 and the total advanced hours to a minimum of 39.

**Recreation Administration Major (37 semester hours)**

Health, Physical Education & Recreation 2253, 2333, 2513, 3343, 3373, 4113, 4513, 4623, 4676; and seven physical education activity courses of which 1051, 1061 or 1161, 1071, and 1821 are required

**Minors for Recreation Administration**

Students have an option to select a minor of 18-21 hours, six of which must be advanced (see individual department listings) or the interdisciplinary minor as listed below:

Interdisciplinary Minor for Recreation  
Administration Major

|                                    |   |
|------------------------------------|---|
| Accounting 2144 .....              | 4 |
| Art 1113, 2913, 2923 .....         | 9 |
| Business Administration 3223 ..... | 3 |
| Education 4373 .....               | 3 |
| Music 4813 .....                   | 3 |
| Psychology 1103 .....              | 3 |
| Sociology 1133, 2233 .....         | 6 |

**Recreation Administration Minor** (22 semester hours)

Health, Physical Education and Recreation 2253, 2333, 2513, 3373, 4623;  
plus three hours advanced recreation administration, and four hours physical  
education activities of which 1051, 1071, and 1821 are required

**REQUIREMENTS FOR DEGREE OF MASTER OF SCIENCE IN PHYSICAL  
EDUCATION**

**General** (see page 306)

**Departmental**

**Plan I. Major:** A minimum of 24 semester hours of approved courses  
including 5003, 5013, 5023

**Minor:** A minimum of 12 semester hours in a minor field accept-  
able to the chairmen of the major and minor departments

**Plan II. Major:** A minimum of 18 semester hours of approved courses  
including 5003, 5013, 5023, and thesis (6983 and 6993) in physical  
education

**Minor:** A minimum of 12 semester hours in a minor field accept-  
able to the chairmen of the major and minor departments

**ACTIVITY COURSES IN  
HEALTH AND PHYSICAL EDUCATION**

**COEDUCATIONAL ACTIVITIES**

|   |         |
|---|---------|
| 1001 Archery  | 1 (0-3) |
| 1011 Contemporary Dance                               | 1 (0-3) |
| 1021 Bowling  | 1 (0-3) |
| 1051 Golf   | 1 (0-3) |
| 1071 Swimming   | 1 (0-3) |
| 1081 *Adapted Physical Education (by permission only) | 1 (0-3) |
| 1091**Shooting (formerly Rifle Target Shooting)       | 1 (0-3) |
| 1101 Sailing and Canoeing                             | 1 (0-3) |
| 1121 Angling and Casting                              | 1 (0-3) |
| 1131 Gymnastics                                       | 1 (0-3) |
| 1141 Badminton  | 1 (0-3) |
| 1151 Soccer (formerly 2151)                           | 1 (0-3) |
| 1171 Softball (formerly 2001)                         | 1 (0-3) |
| 1181 Volleyball (formerly 2011 and 2111)              | 1 (0-3) |
| 1201 Basketball (formerly 2131)                       | 1 (0-3) |
| 1301 Elementary School Games                          | 1 (0-3) |

|      |                                     |         |
|------|-------------------------------------|---------|
| 1311 | <b>Secondary School Games</b>       | 1 (0-3) |
| 1821 | <b>Tennis</b> (formerly 2821)       | 1 (0-3) |
| 1831 | <b>Folk Dance</b> (formerly 2831)   | 1 (0-3) |
| 1841 | <b>Square Dance</b> (formerly 2841) | 1 (0-3) |
| 1851 | <b>Fencing</b> (formerly 2851)      | 1 (0-3) |

**ACTIVITIES RECOMMENDED FOR MEN**

|      |  |         |
|------|--|---------|
| 1041 | <b>Wrestling</b>                                 | 1 (0-3) |
| 1161 | <b>Weight Training and Conditioning Exercise</b> | 1 (0-3) |
| 1191 | <b>Flag Football</b>                             | 1 (0-3) |

**ACTIVITIES RECOMMENDED FOR WOMEN**

|      |  |         |
|------|--|---------|
| 1061 | <b>Body Mechanics and Conditioning Exercises</b> | 1 (0-3) |
|------|--|---------|

Of the above courses only 1081 may be repeated for credit in meeting the physical education requirement.

All physical education activity courses have a \$3.00 fee, except golf and shooting which have an \$8.00 fee, and bowling is \$15.00.

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\*For students with disabling handicaps. Eligible to enroll with consent of university physician, family physician or department chairman.

\*\*Includes field archery, riflery, and trap shooting.

**COURSES IN HEALTH AND PHYSICAL EDUCATION****FOR UNDERGRADUATES**

|       |  |         |
|-------|--|---------|
| 1033. | <b>Introduction to Health, Physical Education and Recreation</b> | 3 (3-0) |
|-------|--|---------|

The aims, objectives, history and philosophy of health, physical education and recreation programs.

|       |                           |         |
|-------|---------------------------|---------|
| 1203. | <b>Health and Hygiene</b> | 3 (3-0) |
|-------|---------------------------|---------|

Health problems and interests, personal hygiene, healthful living, basic principles of health practices for the college student.

|       |   |         |
|-------|---|---------|
| 2203. | <b>Health Education for Elementary Schools.</b> | 3 (3-0) |
|-------|---|---------|

Subject matter, teaching methods, and practice in preparation of teaching units.

|       |                                       |         |
|-------|---------------------------------------|---------|
| 2213. | <b>First Aid and Safety Education</b> | 3 (3-0) |
|-------|---------------------------------------|---------|

Safety in the home, in the school, on the playground, and in traffic. Instruction and practice in first aid. Bandaging, taping, and care of common injuries. Appropriate Red Cross First Aid Certificates may be earned.

|       |                              |         |
|-------|------------------------------|---------|
| 2303. | <b>Intramural Activities</b> | 3 (3-0) |
|-------|------------------------------|---------|

History, present status, and objectives of the intramural movement; program of activities; group, team, and individual schedule-making, tournament organization and scoring plans; rules and regulations, award, and special administrative problems.

|       |                              |         |
|-------|------------------------------|---------|
| 2343. | <b>Officiating for Women</b> | 3 (3-0) |
|-------|------------------------------|---------|

Theory and practice in techniques of officiating. Opportunity to qualify for DGWS ratings in volleyball, basketball and individual sports.

**2353. Officiating for Men 3 (3-0)**

A study of the rules and their interpretation and the mechanics of officiating. The course is designed to develop the skills and knowledge required for the Southwest Officials Association tests in football, basketball and other sports.

**3301. Care and Prevention of Athletic Injuries 1 (1-0)**

Fundamentals of athletic training methods with major emphasis on taping.

**3313. Physical Education Methods for Secondary Schools 3 (3-0)**

Prerequisite: Six semester hours of physical education.

Methods, materials, and techniques used in teaching individual skills; organized team sports below varsity level. A required prerequisite for practice teaching for a major in physical education.

**3323. Techniques of Contemporary Dance 3 (1-2)**

Prerequisite: Physical Education 1011.

A study of fundamental movement, with emphasis on original composition. May be counted as speech.

**3363. Small Craft and Water Safety 3 (3-0)**

Prerequisite: Physical Education 1071 or successful completion of the American Red Cross Life Saving Course.

Theory and techniques of swimming instruction, life saving, waterfront and swimming pool management. Basic skills in small craft handling and safety. Fee: \$3.00.

**3403. Coaching of Football 3 (3-0)**

Theory of football systems and plays; philosophy of public school football; staff organization, planning and duties; and developing a coaching career.

**3413. Coaching of Basketball 3 (3-0)**

Fundamentals of individual and team play; organization of practice; handling of teams during competition, rules and officiating.

**3503. Driver Education and Traffic Safety 3 (2-3)**

Prerequisites: Physical Education 2213 and six hours education.

Designed to meet the requirements of certification of teachers in driver's education. Classroom and behind-the-wheel techniques. Fee: \$35.00.

**3603. Tests and Measurements in Health and Physical Education in Secondary Schools 3 (3-0)**

Study of a wide variety of testing instruments and procedures used in health and physical education. Study of descriptive statistical techniques used in constructing tests, interpreting, and evaluating test results.

**4503. Safety Education 3 (3-0)**

Designed to present facts regarding the number, as well as the cost in money and human suffering, of accidents in home, industry, school, traffic, on farms and during recreational activity. It seeks to establish a background for the individual which is conducive to the development of activities and personal practice which may reduce accidents. Required for driver education endorsement.

**FOR UNDERGRADUATES AND GRADUATES****4333. Outdoor Education** 3 (3-0)

Curriculum and program development for elementary and secondary school outdoor education programs with emphasis on methods, materials and activities.

**4513. Physical Education and Recreation for Exceptional Individuals** 3 (3-0)

Physical education and recreation activities for individuals with various kinds of physical, mental and emotional handicaps. Study of information from the various disciplines with educational theories and special methods and techniques for teaching the handicapped.

**4613. Administration and Supervision of Health and Physical Education** 3 (3-0)

Prerequisite: Six semester hours of advanced physical education.

Administrative procedures connected with organizations, records, reports, equipment, program, and staff; functions and duties of supervision. For students majoring or minoring in health and physical education.

**4633. History of Health and Physical Education** 3 (3-0)

Prerequisite: Junior standing.

World history of health and physical education from early civilization to the modern trends in health and physical education programs today.

**4643. Kinesiology** 3 (3-0)

Prerequisite: Six semester hours of science.

Review of human anatomy and the principles of movement as applied to physical education activities. Evaluation of body mechanics and recognition of deviations from body alignments in individuals. Application of physiology to muscular activities, bodily fatigue, recovery process, benefits and possible dangers of exercise.

**4653. The Physiology of Exercise** 3 (3-0)

Prerequisite: Six semester hours of science.

The application of physiological principles to health and physical education, with an analysis of the manner in which the body reacts to the exacting requirements of exercise.

**4663. Playground Activities and Methods for the Elementary School** 3 (3-0)

Prerequisite: Six semester hours of education.

Playground management, program making, observation, practice activities, and methods.

**COURSES IN RECREATION****2253. Camp Counseling** 3 (3-0)

Understanding of the individual child in a camp setting; techniques of cabin counseling; general aspects of programming; campcraft, arts and crafts, nature study; social and physical recreation activities appropriate to a camp setting; American Camping Association Campcrafter or Advanced Campcrafter Certification is granted upon successful completion of the course.



**2333. Recreational Leadership** 3 (3-0)

Group process; nature of leadership, development of skills and leadership ability in program areas of music, dance, social recreation, arts and crafts, drama, sports and athletics, physical fitness activities, audio-visual aids and games for all ages.

**2513. Community Recreation** 3 (3-0)

Scope of recreation in American life; the role of recreation, parks and sports in human experience and in the structure of community living. The study of the principles involved in relating recreation to national, state, and local agencies, and to community life. Includes recreation in schools, hospitals, voluntary agencies, churches, military, industry and municipal departments.

**3343. Planning Recreation Areas and Facilities** 3 (3-0)

Prerequisite: Engineering Drawing 1133.

A study of design, construction and maintenance of recreation areas and facilities including playlot, neighborhood playground, playfield, camp, and park and recreation centers.

**3373. Recreation Program Development and Supervision** 3 (3-0)

Principles, objectives, values, and techniques of planning programs in all areas (music, drama, dance, arts and crafts, sports and athletics, social recreation, outdoor recreation—education) and in a variety of recreational settings. Includes the fields of activity; types, correlations, and program activities; principles and methods of program planning; schedules according to time basis; special activities and feature events.

**4113. Park and Land Management** 3 (3-0)

Prerequisite: Six hours of biology.

Operation and management procedures of park systems. Acquisition, planning, development and utilization of land areas for recreational purposes.

**4623. Recreation and Park Administration** 3 (3-0)

Survey of organization and administrative principles and practices; objectives, principles, and procedure involved in establishing and operating a recreation and park department; professional relationships, development and operation of recreation areas and facilities; recruitment, selection, preparation, and supervision of personnel; budgeting and financing; reports and records; acquisition and use of equipment and supplies; program development; legislation; publicity and public relations; scheduling; coordination of community resources; research; and evaluation.

**4676. Field Work in Recreation** 6 semester hours

Prerequisites for assignments: A minimum over-all college average of C and a minimum grade average of 2.5 in the major field.

Field work in a recreation program under competent supervision; consultations with university supervisor of field work. A minimum of 240 hours of work required.

**FOR GRADUATES****5003. Research Methods and Statistical Applications in Health, Physical Education and Recreation** 3 (3-0)

Prerequisite: Graduate standing in health and physical education.

Introductory principles of scientific inquiry, research methods applicable to these fields, evaluation of published research and procedures for developing a research design.

**5013. Curriculum and Program Development** 3 (3-0)

Prerequisite: Graduate standing in health and physical education.

Curriculum and program development for elementary schools, secondary schools and junior colleges. Historical and modern societal influences will be evaluated.

**5023. Motor Learning** 3 (3-0)

Current theories and practices concerning improvement of motor learning and motor performance. Hereditary and environmental determinants of motor development; motor behavior of infants, children, adolescents and adults; changes in size, body build, fitness and motor performance.

**5033. Problems in Teaching Adaptive Physical Education** 3 (3-0)

Analysis of problems in growth and development with emphasis upon postural needs and levels of fitness. Adaptive programs in relation to specific impairments; the sensory-motor approach to habilitation and rehabilitation.

**5043. Administration of Interscholastic and Intercollegiate Athletics** 3 (3-0)

Administrative procedures and problems of secondary school, junior college and college athletic programs. Study includes history of athletic programs, philosophy, management, public relations, legal liability, facilities, and management of student athletes including grants-in-aid and health services.

**5061, 5062, 5063. Seminar in Health, Physical Education and Recreation** 1-3 semester hours

Collateral reading, reports and discussion of recent publications dealing with significant problems in the field of health, physical education and recreation. May be repeated with consent of instructor.

**5073. Problems** 3 (3-0)

Prerequisite: Graduate standing in health and physical education.

Offers the advanced student an opportunity to select a special area of interest for intensive research in health, physical education or recreation. An acceptable paper in the area of research is required. May be repeated once for credit.

**5103. Mechanical Analysis of Motor Skills** 3 (3-0)

Prerequisite: Physical Education 4643 or approval of instructor.

Study of forces which act on a human body and the effects which these forces produce. Practice in recognition and correction of incorrect application and mechanical principles in sports through cinematographic analysis and closed circuit television replay.

**5643. Kinesiology**

3 (3-0)

Prerequisite: Six semester hours of science.

Review of human anatomy and the principles of movement as applied to physical education activities. Evaluation of body mechanics and recognition of deviations from body alignments in individuals. Application of physiology to muscular activities, bodily fatigue, recovery process, benefits and possible dangers of exercise.

**5653. The Physiology of Exercise**

3 (3-0)

Prerequisite: Six semester hours of science.

The application of physiological principles of health and physical education with an analysis of the manner in which the body reacts to the exacting requirements of exercise.

**5663. Playground Activities and Methods for the  
Elementary School**

3 (3-0)

Playground management, program making, observation, practice activities, and methods.

**6983, 6993. Thesis**

6 semester hours



# **School of Humanities and Social Sciences**

**Department of Art**

**Department of Biblical History and Literature**

**Department of English**

**Department of Foreign Languages**

**Department of History**

**Department of Music**

**Department of Political Science**

**Department of Psychology, Sociology,  
and Anthropology**

**Department of Speech and Drama**





# The School of Humanities and Social Sciences

HARRY M. BROWN, *Dean*  
224 Hardin Administration Building, South

**HONORS COURSES** For Honors Students only, see page 78.

4001, 2, 3. **Honors Tutorial** 1, 2, or 3 semester hours

Each senior Honors Student will do two semesters of research under the supervision of a member of the faculty of his major department. The course will apply toward the student's major and will be for one, two, or three hours credit per semester, the decision resting with the head of the department concerned. The goal of the effort will be the writing of a paper worthy of publication.

## **LIBRARY RESEARCH**

3002. **Bibliography and Research** 2 (2-0)

Critical examination and evaluation of reference literature within the student's own academic major and minor. Analysis of investigation and research procedures within the library.

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## **HUMANITIES**

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### **REQUIREMENTS FOR A MAJOR IN HUMANITIES**

The requirements for the degree of Bachelor of Arts with a major in humanities are as follows:

#### **General Requirements** (43 semester hours)

English 1113, 1123

History 1113, 1233

Political Science 1333, 1433

One foreign language—12 hours, or the equivalent of language through the second year

Science and mathematics (one or both)—9 hours

Four courses of physical education activities or equivalent

#### **Core Humanities** (43 semester hours)

Humanities 2003, 2013, 4013, 4023

English 2413, 2423

History 1333, 1433

Art 2413, 2423

Music 1702, 1712

Drama: any six hours from Drama 1503, 4433, 4443; English 3253, 3263

Philosophy 1033

**Major Concentration** (18-21 hours, to make a total of 24 hours in one of the following fields, beyond General Requirements)

**Art** (18 semester hours)

18 hours including 12 advanced hours from Art 1113, 1123, 1413, 3433, 3443, 4413, 4913; Philosophy 3533

**English** (18 semester hours)

18 hours from English 3103, 3303, 3313, 3633, 3703, 3713, 4833, 4843, 4853, 4863, 4873, 4933; Drama 4433, 4443

**History** (18 semester hours)

18 hours from History 3133, 3143, 3233, 4033, 4153, 4213, 4223, 4233, 4253, 4263, 4273; Art 3433, 3443, 4413; Music 4703, 4713  
At least 12 hours must have a history prefix.

**Music** (20 semester hours)

20 hours including at least 12 advanced hours from Music 1033, 1603, 1613, 2603, 3622, 4703, 4713, 4733, 4763

**Philosophy** (21 semester hours)

21 hours from Philosophy 1513, 2033, 2133, 2233, 3213, 3233, 3433, 3533, 4233, 4653, 4703, 4933; English 3313, 3323; History 4233, 4273  
At least 12 hours must have a philosophy prefix.

**Electives:** Additional hours to bring the total hours to 124 and the total advanced hours to 39.

## COURSES IN HUMANITIES

2003. **Humanities** 3 (3-0)

A study of the best ideas and expressions of Western man as manifested in art, music, philosophy, drama, and literature. To aid the students in discovering, understanding, appreciating, and synthesizing principles of these arts.

2013. **Humanities** 3 (3-0)

A continuation of Humanities 2003.

3103. **Humanities — Africa** 3 (3-0)

A study of the cultural heritage of Africa as manifested in its literature, music, art, history, and religious traditions.

4013. **Humanities Colloquium I** 3 (3-0)

Research-supported group discussions of issues and ideas (principally modern) as reflected in the humanities areas. Emphasis on social and behavioral studies.

4023. **Humanities Colloquium II** 3 (3-0)

Research-supported group discussions of issues and ideas (principally modern) as reflected in the humanities areas. Emphasis on philosophy and the arts.

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## INTERNATIONAL STUDIES PROGRAM

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Faculty Advisors: Hewitt, Olson, Preda, Welch

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The requirements for a Bachelor of Arts degree with a major in international studies are as follows:

**General Requirements** (49 hours, see page 30)

Majors in international studies do not need to take the six hours of core electives.

**Major**

International Studies Core (30 hours)

Political Science 3653, 4333, 4933

History 1333, 1433, 4953 (Problems: Diplomatic History)

Economics 1333 or 2333, 4633 (Studies: Economic Development),  
4623, 4723

**Minor**

Interdisciplinary Concentration (24 hours)

Electives totalling 24 hours must be chosen from courses in at least two of the following areas with no more than 18 hours in one area. The courses chosen in each area must include offerings from at least two departments.

Europe:

Political Science 3533, 3553, 4543, 4553

History 3143, 3513, 4333, 4433, 4503, 4523, 4943 (European)

Economics 3323, 3703, 3743, 4633, 4713

Foreign Languages: French 3013, 3333, 3133, 3233; German 3013,  
3133, 3233, 3423; Spanish 3013, 3133, 3233, 3333

Latin America:

Political Science 4753

History 3833, 3843, 4173, 4183, 4643, 4943 (Latin America)

Economics 3323, 3703, 3743, 4633

Spanish 3023, 3333, 3133, 3233

Asia-Africa:

Political Science 3563, 4733, 4743

History 3803, 3813, 4803, 4943 (Asian or African)

Economics 4633

French 3013, 3333, 3133, 3233

United States:

Political Science 3633, 3843, 4853

History 4133, 4943 (United States)

Economics 3323, 3703, 3743, 4633 (Studies: Urban Economic Problems), 4633 (Studies: Growth and Affluence), 4703, 4713, 4833

Foreign Languages: French 3013, 3133, 3233, 3333; German 3013,  
3133, 3233, 3423; Spanish 3013, 3133, 3233, 3333

**Electives** (21 hours)

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## JOURNALISM PROGRAM

Assistant Professor: Allen

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The requirements for a Bachelor of Arts degree with a major in journalism are as follows:

**General** (see page 30)

**Departmental**

**Major** (30 semester hours)

Journalism 1233, 1243, 2233, 2633, 4643; plus 15 hours of which 12 must be advanced. Journalism 1243 and 2633 each include 60 hours of laboratory practice on the university newspaper.

**Minor** (18 semester hours)

Journalism 1233, 1243, 2233, 2633; plus six advanced hours.

**Minor with radio-television emphasis** (18 semester hours)

Journalism 1233, 3033, 3043, 4653; Speech 2033, 3023

**Additional**

Speech 1133

Speed and accuracy in typing 40 words per minute upon entering Journalism 1233 with increased proficiency during subsequent courses.

## COURSES IN JOURNALISM

### FOR UNDERGRADUATES

**1233. Introduction to Mass Communications** 3 (3-0)

Survey of the media of mass communications: newspapers, radio, television, magazines, industrial publications.

**1241. News Practicum** 1 semester hour

Prerequisite: Consent of instructor.

Instruction and practice in reporting and editing. Students work four hours weekly on the university newspaper or other media to obtain practical experience. May be taken in conjunction with 1243 and 2633. May be repeated for a total of three hours credit.

**1243. Introduction to Reporting and News Writing** 3 (2-2)

Introduction to fundamentals such as accuracy, brevity, clarity, deadlines, news story structure, and the nature of the news. Designed to prepare the student for sophomore reporting.

**2233. News Editing and Copy Reading** 3 (3-0)

Prerequisite: Journalism 1243 or consent of department chairman.

Instruction and practice of copy reading, use of style book, headline writing, and newspaper makeup.

**2633. Reporting of Public Affairs**

3 (2-2)

Prerequisite: Journalism 1243 or consent of department chairman.

Study and practice in reporting the significant and complex news such as science, labor, the courts, critical reviews. Public affairs and investigative reporting.

**3023. Mass Communications and Society**

3 (3-0)

Prerequisite: 12 hours of journalism or consent of the department chairman.

Study of the roles of mass communications in modern society; social responsibility, pressures and problems; relationship of mass communications to social institutions, government and the public.

**3033. Radio-Television News Writing and Editing**

3 (2-2)

Prerequisite: Journalism 1243 or consent of department chairman.

Instruction and practice in the gathering and preparation of broadcast news.

**3043. Radio-Television Production**

3 (2-2)

Prerequisite: Journalism 3033 or consent of the department chairman.

Instruction in the production of radio and television programs, operation of studio equipment. Students write, edit, and produce programs. May be counted as speech.

**3103. Creative Writing (English)**

3 (3-0)

See English section. May be counted as journalism.

**3633. Editorial Writing**

3 (3-0)

Prerequisite: 12 hours of journalism or consent of the department chairman.

Study and practice of editorial writing techniques. Role of the editorial in contemporary journalism. Organization of facts for interpretation and persuasion.

**3643. Photojournalism**

3 (2-2)

Prerequisite: 12 hours of journalism or consent of the department chairman.

Study of camera techniques, photographic situations and darkroom procedures. Assignments include problems dealing with photographic composition, pictures by available light, depth of field, synchronized flash and action photography. Laboratory fee: \$5.00.

**3653. Feature Writing**

3 (3-0)

Prerequisite: 12 hours of journalism or consent of the department chairman.

Procedure in gathering material for feature stories with emphasis on newspaper articles. Analysis of reader appeal, study of feature story structure, development of style by practice in writing feature stories.

**3723. Principles of Marketing**

3 (3-0)

See business section. May be counted as journalism.



**4133. Special Journalism Projects** 3 semester hours

Prerequisite: 12 hours of journalism or consent of the department chairman.

Designed to give advanced students an opportunity to pursue special studies for which separate courses have not been organized.

**4203. Advertising** 3 (3-0)

See business section. May be counted as journalism.

**4633. History of American Journalism** 3 (3-0)

Prerequisite: 12 hours of journalism or consent of the department chairman.

Study of the development of American newspapers and other mass communication media and their traditions related to the political, economic, and social progress of the American people.

**4643. Ethics and Law of the Press** 3 (3-0)

Prerequisite: 12 hours of journalism or consent of the department chairman.

Study of how ethics and law have developed in mass communications with emphasis on freedom of the press vs. rights of the individual.

**4653. Theories of Mass Communication** 3 (3-0)

Prerequisite: 12 hours of journalism or consent of the department chairman.

Comparative study of views and theories of communication through the mass media; theories of perception and communication; information and recall involving newspapers, magazines and electronic media.

**4683. Public Relations** 3 (3-0)

Prerequisite: 12 hours of journalism or consent of the department chairman.

Study of public relations in modern society, business, and communications. Influencing public opinion through acceptable performance and two-way communication.

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## PHILOSOPHY PROGRAM

Assistant Professors: Stewart, Vielkind

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**REQUIREMENTS FOR A MINOR IN PHILOSOPHY** (18 semester hours)

Philosophy 1033, 2033, 2233, and nine additional semester hours of which six must be advanced.

### COURSES IN PHILOSOPHY

**1033. The Primary Concerns of Philosophy** 3 (3-0)

Methods, areas, concepts, and problems related to man's search for meaning in the Cosmos.

1533. **Logic** 3 (3-0)  
The study of principal methods of organizing thought: the use of sign, symbol, concept, and system.
2033. **Ethics** 3 (3-0)  
What is "the good" for man: an inquiry into the philosophy of morality.
2133. **Philosophy of the State** 3 (3-0)  
Principal philosophical concepts of law and the nature of man and society, from Plato to the present.
2233. **Classical Philosophy** 3 (3-0)  
A study of the pre-Socratics, Plato, and Aristotle. Discussion of the contemporary uses of classical philosophy.
3213. **Medieval Philosophy** 3 (3-0)  
Prerequisite: Advanced standing or consent of the instructor.  
A study of philosophy from Augustine to Aquinas and Ockham.
3233. **Modern Philosophy** 3 (3-0)  
Prerequisite: Advanced standing or consent of the instructor.  
A survey of philosophical problems from Descartes to the end of the nineteenth century including Descartes, Kant, Hegel, Kierkegaard, Nietzsche.
3433. **Philosophy of Religion** 3 (3-0)  
Prerequisite: Advanced standing or consent of the instructor.  
An inquiry into the central questions of the relationship between man and God; the problem of authority and religion, revelation, the natural and the supernatural, the problem of evil, and arguments for and against the existence of God.
3533. **The Philosophy of Art** 3 (3-0)  
Prerequisite: Three hours of philosophy.  
The role of art in human experience: the relationship between the aesthetic and the processes of the human personality.
4233. **Contemporary Philosophy** 3 (3-0)  
Prerequisite: Advanced standing or consent of the instructor.  
A survey of philosophy of the twentieth century including the methods and history of the various movements.
4653. **Readings in Philosophy** 3 semester hours  
Prerequisites: Six hours of philosophy and consent of the instructor.  
Directed reading and research. May be repeated once for credit.
4703. **Eastern Philosophy** 3 (3-0)  
Prerequisite: Three hours of philosophy.  
An inquiry into major areas of metaphysics, ethics, and logic of the principal Eastern philosophies.
4933. **Philosophy Seminar** 3 (3-0)  
Prerequisites: Three hours of philosophy and consent of the instructor.  
Original research and discourse in philosophy.

## DEPARTMENT OF ART

**Thomas G. Crossnoe, Chairman** (104 McGaha Building)

Professor: Crossnoe

Associate Professor: Ash

Assistant Professors: Davis, Stefanelli

Instructors: Greer, Webb

The Department of Art offers three degree programs for art majors:

Bachelor of Fine Arts degree

Bachelor of Arts degree

Bachelor of Science in Education degree

The requirements for the Bachelor of Fine Arts degree with major in art are as follows:

### **General Requirements** (22 semester hours)

English 1113, 1123

History 1133, 1233

Political Science 1333, 1433

Satisfaction of the requirement for physical education activities or basic military science (See page 81)

### **Additional General Requirements** (21 semester hours)

Science and mathematics (one or both) — 9 hours

Sophomore literature — 6 hours

One foreign language exclusive of Conversational Spanish — 6 hours

**Core Electives:** Six semester hours from at least two of the following fields. These may be included as part of the **Additional General Requirements**, but must be outside the major and minor fields.

Anthropology

Astronomy

Biblical literature

Criminal Justice

Drama

Economics

Geography

Humanities

Journalism

Music

Philosophy

Psychology

Sociology

Speech

Western civilization

### **Departmental** (61 semester hours)

15 hours of basic art courses including 1113, 1123, 1313, 1323, and 1413

9 hours of art history from 2413, 2423, 3433, 3443, 4413, and 4913

Painting 2313

Printmaking 2153

Ceramics 2613

Metalsmithing 3813 or 3823

Sculpture 3623 or 3633

9 hours in a major emphasis in addition to the above requirements  
6 hours in a minor emphasis in addition to the above requirements  
6 hours of advanced art  
A senior show of work (Art 4921) is required prior to graduation.

**Major Emphasis in Art:** A major emphasis is 12 semester hours including courses listed in Departmental above.

Art History: 2413, 2423, 3433, 3443, 4413, 4913  
Ceramics: 2613 or 2623, 3613, 4523, 4613, 4913  
Commercial Art: 2713, 2723, 3313, 3713, 4913  
Metalsmithing: 2513 or 2523, 3813 or 3823, 4813, 4823, 4913  
Painting: 2313 or 2323, 3333, 4313, 4323, 4913  
Printmaking: 2153, 3143, 3153, 4143, 4153, 4913  
Sculpture: 2513 or 2523, 3623, 3633, 4623, 4913

**Minor Emphasis in Art:** A minor emphasis is 9 semester hours including courses listed in Departmental above.

Ceramics: 2613 or 2623, 3613, 4523, 4613, 4913  
Commercial Art: 2713, 2723, 3313, 3713, 4913  
Metalsmithing: 2513 or 2523, 3813 or 3823, 4813, 4823, 4913  
Painting: 2313 or 2323, 3333, 4313, 4323, 4913  
Printmaking: 2153, 3143, 3153, 4143, 4153, 4913  
Sculpture: 2513 or 2523, 3623, 3633, 4623, 4913

**Additional Electives** outside the field of art to total 124 hours

The requirements for the degree of Bachelor of Arts with a major in art are as follows:

**General** (see page 30)

### **Departmental**

**Major** (36 semester hours)

Art 1113, 1123, 1313 or 1323, nine hours of art history, and 18 additional hours, with a total of 21 advanced hours

A minor may be chosen in any field of interest. The minor must be approved by the departmental adviser.

The requirements for the Bachelor of Science in Education degree with a major in art may be found on page 121.

### **REQUIREMENTS FOR A MINOR IN ART** (18 semester hours)

Art 1113, 1123, three hours of art history, and nine additional hours, with a total of 12 advanced hours

**Note:** The department reserves the privilege of retaining such student work as desired for reference or exhibition purposes. If the student, upon due notification, does not claim his work after a 12-month period, the university will have the right to dispose of it.

**COURSES IN ART****1113. Design I** (formerly Color and Design) 3 (2-4)

Fundamental design principles with emphasis on line, shape, value, and texture.

**1123. Design II** (formerly Color and Design) 3 (2-4)

Continuation of 1113 with emphasis on color and three-dimensional form and space.

**1313. Drawing I** (formerly Figure Drawing) 3 (2-4)

Drawing a variety of subjects in all drawing media with emphasis on the abstract qualities involved in visual organization.

**1323. Drawing II** (formerly Figure Drawing) 3 (2-4)

Continuation of 1313 with increased emphasis on using color.

**1413. Art Appreciation** 3 (3-0)

Lectures, slides and discussion of the visual elements and their application to the arts.

**2153. Printmaking** 3 (2-4)

Introduction to printmaking. Beginning instruction in one of the following printmaking media: intaglio (dealing with etching), aquatint, softground and relief printing methods applicable to the intaglio process; lithography, dealing with stone and metalplate printing; and screen process printing (serigraphy) dealing with photo-methods. Fee: \$5.00.

**2213. Drawing III** (formerly Advanced Figure Drawing) 3 (2-4)

Prerequisite: Grade of B in Art 1313 or 1323, or consent of the instructor.

Academic study of the figure. Emphasis on anatomy and advanced pictorial approaches. Fee: \$5.00.

**2313. Painting** 3 (2-4)

Experimental study and application of traditional and contemporary painting techniques in one of the following media: oils, acrylic or watercolor.

**2323. Painting** 3 (2-4)

Continued development in the use of specific painting techniques in a second media: oils, acrylics or watercolor.

**2413. History of Art, Ancient Through Late Middle Ages** 3 (3-0)

Prerequisite: Art 1413 or consent of the instructor.

Survey of the development of European painting, sculpture and architecture from pre-historic times to the Gothic Era. (c. 15,000 B.C.-c. 1400 A.D.)

**2423. History of Art, Renaissance Through Rococo** 3 (3-0)

Prerequisite: Art 1413 or consent of the instructor.

Survey illustrating the development of European painting, sculpture and architecture in Western Europe from the Proto-Renaissance to the Rococo. (13th century to 18th century).

**2513. Three-Dimensional Design I** 3 (2-4)

Basic design principles applied to three-dimensional space. Emphasis on the development of the problem solving process in a wide variety of media.



**2523. Three Dimensional Design II**

3 (2-4)

Basic design principles applied to three-dimensional space. Emphasis on problem solving processes in craft media.

**2613. Ceramics**

3 (2-4)

Basic studio practices in handbuilding techniques and design with an introduction to techniques in decoration and glaze application. Fee: \$8.00.

**2623. Ceramics**

3 (2-4)

Basic studio practices in wheel-throwing techniques and design with instruction in kiln stacking and firing. Fee: \$8.00.

**2713. Lettering**

3 (2-4)

Fundamental principles of lettering, lettering construction, and traditional letter forms.

**2723. Advanced Lettering**

3 (2-4)

Prerequisite: Art 2713.

Letter and type layout, emphasis on lettering for reproduction and layout techniques.

**2913. Crafts I**

3 (2-4)

Introduction to craft design and execution. Special emphasis on design and problem solving in a variety of craft media.

**2923. Crafts II**

3 (2-4)

Continuation of Crafts I with special emphasis on individual projects and selected craft materials.

**3143. Printmaking**

3 (2-4)

Introduction to a second print media: intaglio, lithography or serigraphy emphasizing color printing. Fee: \$5.00. (See Printmaking 2153 for definition of media.)

**3153. Printmaking**

3 (2-4)

Advanced study in a previously enrolled media or introduction to a third process. Emphasizing color printing and technical development. Fee: \$5.00. (See Printmaking 2153 for definition of media.)

**3313. Advanced Drawing**

3 (2-4)

Prerequisite: 15 studio hours or consent of instructor.

The development of skills with respect to the total visual process in drawing. Designed to deal with individual problems and general concepts.

**3333. Painting**

3 (2-4)

Intermediate study of painting techniques in oil, acrylic, or an experimental media (i.e. encaustic, tempera, maqua, etc.) with emphasis on individual resolutions to visual problems.

**3433. History of Art: Contemporary I**

3 (3-0)

Prerequisite: Art 1413 or consent of the instructor.

Detailed survey illustrating the development of painting, sculpture and architecture in Western Europe during the late eighteenth and nineteenth centuries.

**3443. History of Art: Contemporary II**

3 (3-0)

Prerequisite: Art 1413 or consent of the instructor.

Detailed survey illustrating the development of painting, sculpture and architecture in Western Europe and the United States during the twentieth century.

**3613. Ceramics**

3 (2-4)

Selected studio problems in handbuilding and throwing techniques with an emphasis on the combining of the two techniques. An understanding of ceramic raw materials and basic glaze chemistry will be developed. Fee: \$8.00.

**3623. Sculpture**

3 (2-4)

Experience with clay and other materials related to a study of three-dimensional form and space, especially through the study of the human figure. Fee: \$5.00.

**3633. Sculpture**

3 (2-4)

Prerequisite: Art 3623 or consent of instructor.

A continuation of experience with clay and other materials related to a study of three-dimensional form and space, especially through a study of the human form. Fee: \$5.00.

**3713. Advertising Art**

3 (2-4)

Introduction to practical designing. Study of working methods in the work of contemporary designs. Finished work for trademarks, letterheads, wrapping paper, package designs, and similar problems.

**3813. Metalsmithing I**

3 (2-4)

Prerequisite: Art 2513 or 2523 or consent of instructor.

The development of basic metalsmithing skills; raising, forging, and construction techniques. Particular emphasis placed on design and craftsmanship in various metals.

**3823. Metalsmithing II**

3 (2-4)

Prerequisite: Art 3813 or consent of instructor.

Continuation of Metalsmithing I with continued emphasis on design, craftsmanship and basic metalsmithing techniques.

**4143. Printmaking**

3 (2-4)

Selected studio problems with emphasis on combining or mixing mediums. Stressing individual development and production.

**4153. Printmaking**

3 (2-4)

Further emphasis in individual development of image and technique stressing production of prints to be included in the Senior Show.

**4303. Art for the Elementary School**

3 (2-4)

A study of art philosophy as it applies to the elementary art program. Art problems and methods in both two and three dimensional work in various media and processes appropriate for the elementary age student. Readings, observations and research in art education.

**4313. Painting**

3 (2-4)

Prerequisite: Art 3333.

Emphasis on individual exploration of advanced concepts in painting.

**4323. Painting**

3 (2-4)

Prerequisite: Art 4313.

Continued exploration of advanced concepts in painting, stressing production of paintings to be included in the Senior Show.

**4403. Art for the Secondary School**

3 (2-4)

A study of the philosophy, objective, organization and theory related to the secondary art program. The development of an art curriculum with respect to materials, skills and knowledge content for the secondary level art student. Readings, observations and research in historical and contemporary trends in art education. Practical application of curriculum studies and teaching methods.

**4413. American Art**

3 (3-0)

Prerequisite: Art 1413 or consent of the instructor.

Survey illustrating the development of painting, sculpture and architecture in the Americas from Pre-Columbian to modern times.

**4523. Ceramics**

3 (2-4)

Advanced individual problems in clay construction and design with an emphasis on the development of an individual direction. Problems in non-utilitarian forms with consideration for the technical problems inherent to the process and materials selected by the student. Fee: \$8.00.

**4613. Ceramics**

3 (2-4)

Advanced individual problems in clay construction and design with further emphasis on the development of an individual direction stressing production of works suitable for use in the Senior Show. Fee: \$8.00.

**4623. Sculpture**

3 (2-4)

Prerequisites: Art 3623, 3633 or consent of instructor.

Problems in sculptural form in various media. Fee: \$5.00.

**4813. Metalsmithing III**

3 (2-4)

Prerequisite: Art 3823 or consent of instructor.

The development of advanced metalsmithing skills; raising, forging, casting, and enameling. Special emphasis placed on design and craftsmanship in selected projects.

**4823. Metalsmithing IV**

3 (2-4)

Prerequisite: Art 4813 or consent of instructor.

Continuation of Metalsmithing III with emphasis placed on design and craftsmanship in selected projects.

**4913. Advanced Problems in Art**

3 semester hours

Prerequisite: Nine hours in the field to be investigated.

Problems to be worked out in conjunction with instructor of the field being investigated. May be repeated for credit when the fields of study vary. Fee: \$5.00.

**4921. Senior Show**

1 semester hour

Special emphasis on selection and presentation of work and design of the senior show.

## DEPARTMENT OF BIBLICAL HISTORY AND LITERATURE

**J. R. Deering, Chairman** (Baptist Student Union)

Instructors: Deering, Ruggia, Smith

### FOR UNDERGRADUATES

A maximum of 12 semester hours in religion may be counted as elective credit toward the bachelor's degree. Courses in religion are taught without regard to sect or creed. These courses are taught off-campus in centers provided by the churches at no expense to the university.

### COURSES IN BIBLICAL HISTORY AND LITERATURE

**1133. Introduction to the Old Testament** 3 (3-0)

A study of the history, literature, and significant teachings of the Old Testament.

**1233. Introduction to the New Testament** 3 (3-0)

A study of the history, literature, and significant teachings of the New Testament.

**1333. Life and Teachings of Jesus** 3 (3-0)

A detailed study of the life, teachings, and significance of Jesus Christ as presented by the four Gospel writers.

**1433. Life and Letters of Paul** 3 (3-0)

A study of the influence of Paul on all Christendom through his life and writings.

**1531. The Church and Family Life** 1 (1-0)

Biblical principles necessary for the growth and nurture of the Christian home.

**1541. Old Testament Topics** 1 (1-0)

An historical and literary study of a selected portion of the Old Testament.

**1551. Selected Topics in New Testament Studies** 1 (1-0)

An historical and literary study of a selected portion of the New Testament.

**2133. Comparative World Religions** 3 (3-0)

A study of several of the great religions of the world with emphasis on Hinduism, Buddhism, Islam, Judaism and Christianity.

**2213. The Pentateuch** 3 (3-0)

The origin, history, and concepts of the Old Testament books of the law (Genesis to Deuteronomy.)

**2323. Topics in Biblical and Religious Studies** 3 (3-0)

A study of several areas related to the Bible and religion. May be repeated once for credit when topics vary.

**2333. Contemporary Religious Thought**

3 (3-0)

A consideration of recent developments, current issues, and contemporary writing in Christian thought and practice.

**DEPARTMENT OF ENGLISH**

**Jeff Campbell, Chairman** (208A Hardin Administration Building)

Professors: Barton, Brown, Campbell, Ramos

Associate Professors: Carpenter, Hoggard, McBroom, Taylor

Assistant Professors: Avegno, Hoffman, Kyper, Stewart

The Department of English offers four programs for English majors. These are as follows:

**Undergraduate**

The Bachelor of Arts degree

The Bachelor of Science in Education degree

**Graduate**

The Master of Arts degree with work exclusively in English

The Master of Arts degree in English with a minor taken in some related area

**UNDERGRADUATE PROGRAMS**

The requirements for the degree of Bachelor of Arts with a major in English are as follows:

**General** (see page 30)

**Departmental****Additional General**

At least a C average in lower division English work

**Major** (30 semester hours exclusive of 1113 and 1123)

Six hours sophomore literature; three hours chosen from language courses 3513, 4513, 4523, 4753, 4763; three hours chosen from 3000 level courses (excluding 3013); nine hours chosen from 4000 level courses; and nine hours English electives

**Minor** is to be selected from an area of interest approved by the chairman of the department involved.

**REQUIREMENTS FOR A MINOR IN ENGLISH**

Eighteen semester hours, exclusive of English 1113 and 1123, including six hours of sophomore literature; three hours chosen from language courses 3513, 4513, 4523, 4753, 4763; three hours from 3000 level courses (excluding 3013); three hours chosen from 4000 level courses; and three hours English elective.

The requirements for the degree of Bachelor of Science in Education in English may be found on page 124.



The following summary of undergraduate courses outlines the varying emphases offered by the Department of English:

### **FRESHMAN ENGLISH**

- 1113. Rhetoric and Composition (first semester)
- 1123. Rhetoric and Composition (second semester)

### **SOPHOMORE LITERATURE**

- 2413. World Literature
- 2423. World Literature
- 2613. Survey of American Literature
- 2623. Survey of American Literature
- 2813. Survey of English Literature
- 2823. Survey of English Literature
- 2913. Selected Studies in Literature

### **WRITING COURSES**

- 2103. Technical Writing
- 3103. Creative Writing

### **GENERAL LITERATURE COURSES**

- 3003. Folklore
- 3253. World Drama
- 3263. World Drama
- 3273. Poetry
- 3293. Short Story
- 3303. Tragedy
- 3313. Comedy
- 3333. Satire
- 3343. The Novel
- 3363. Mexican-American Literature and Culture
- 3703. American Life and Literature I
- 3713. American Life and Literature II

### **LANGUAGE AND LINGUISTICS COURSES**

- 3513. Advanced Grammar
- 4513. History of the English Language
- 4523. Introduction to Linguistics
- 4753. Old English Language and Literature (formerly 4813)
- 4763. Middle English Language and Literature (formerly 4823)

### **AMERICAN LITERATURE COURSES**

- 4623. The American Renaissance
- 4633. American Realism and Naturalism
- 4643. Literature of the South and Southwest
- 4653. Modern American Literature

### **ENGLISH LITERATURE COURSES**

- 4753. Old English Language and Literature (formerly 4813)
- 4763. Middle English Language and Literature (formerly 4823)
- 4773. Shakespeare (formerly 4323)

- 4833. **English Renaissance Period**
- 4843. **Seventeenth Century English Literature**
- 4853. **Eighteenth Century English Literature**
- 4863. **The English Romantic Period**
- 4873. **The Victorian Period**
- 4883. **Twentieth Century English Literature**
- 4893. **The English Novel (formerly 3213)**

#### **WORLD LITERATURE COURSES**

- 4903. **Selected Studies in Comparative Literature**
- 4913. **Russian Literature (formerly 4413)**
- 4923. **Modern Poetry**
- 4933. **Modern World Literature**
- 4953. **Contemporary Literature**

#### **DIRECTED READING OR RESEARCH**

- 4993. **Directed Reading or Research (formerly 4943)**

#### **GRADUATE PROGRAMS**

The requirements for a degree of Master of Arts with a major in the field of English are as follows:

**General** (see page 306)

##### **Departmental**

##### **Major**

Thirty semester hours in English, including thesis, or a minimum of 18 semester hours of approved courses including English 6983, 6993, in addition to a related minor

##### **Minor**

A minimum of 12 semester hours of approved courses. Education majors selecting a divided minor may be approved for nine-hour minor by the English Department Chairman

### **COURSES IN ENGLISH**

#### **FOR UNDERGRADUATES**

- 1113. **Rhetoric and Composition** 3 (3-0)

The practice of rhetorical principles through writing short essays and reading prose selections.

- 1123. **Rhetoric and Composition** 3 (3-0)

Prerequisite: English 1113.

Continued practice of rhetorical principles, with emphasis on written analysis and explication of reading assignments. Preparation of a paper of moderate length requiring library research skills and documentation.

- 2103. **Technical Writing** 3 (3-0)

Prerequisite: English 1123.

Introduction to the purposes and patterns of expository writing for scientific, business, legal, and related vocational situations. Graphic and tabular material, bibliography, and documents of transmittal are included. Analysis

of examples of technical writing selected from the student's areas of professional interest. Each student will complete one minor and one major report or proposal, as well as numerous shorter written exercises.

**2413. World Literature** 3 (3-0)

Prerequisite: English 1123.

A study of the masterpieces of Western World Literature from Homer through the early Renaissance.

**2423. World Literature** 3 (3-0)

Prerequisite: English 1123.

A study of the masterpieces of Western World literature from Shakespeare to the present.

**2613. Survey of American Literature** 3 (3-0)

Prerequisite: English 1123.

Survey of American literature with emphasis upon historical background as well as upon important writers from the beginnings through the rise of realism.

**2623. Survey of American Literature** 3 (3-0)

Prerequisite: English 1123.

Survey of American literature with emphasis upon historical background as well as important writers from naturalism to the present.

**2813. Survey of English Literature** 3 (3-0)

Prerequisite: English 1123.

From Beowulf to Burns. A chronological study of the principal authors, their works, and trends in English literature.

**2823. Survey of English Literature** 3 (3-0)

Prerequisite: English 1123.

From Burns to the present. A chronological study of the principal authors, their works, and trends in English literature.

**2913. Selected Studies in Literature** 3 (3-0)

Prerequisite: English 1123.

**Topic 1: Literary Themes:** an examination of a significant literary theme as exemplified in works of authors of various times.

**Topic 2: Literary Types:** an examination of a particular literary genre exemplified in works of authors of various times.

**Topics 3: Periods or Movements:** an examination of a variety of literary works growing out of a particular historical period or intellectual movement.

May be repeated for credit with departmental approval when topics vary.

**3003. Folklore** 3 (3-0)

Prerequisite: Six hours of sophomore English.

An examination of the development of folklore as an academic discipline and of the uses made of folklore in a variety of cultures.

**3013. Children's Literature**

3 (3-0)

Prerequisite: Six hours of sophomore English.

Materials and sources suitable for use in the elementary grades. Required of elementary education majors only, and may not be counted in English major or minor.

**3103. Creative Writing**

3 (3-0)

Prerequisite: Six hours of sophomore English or consent from the department chairman.

Emphasis on the writing of fiction and poetry, the techniques and concerns of each. Ordinarily only one genre is dealt with in any given semester. May be repeated for credit with consent of instructor and department chairman. May be taken for journalism credit.

**3253. World Drama**

3 (3-0)

Prerequisite: Six hours of sophomore English or consent of department chairman.

A survey of world drama from Aeschylus to Ibsen.

**3263. World Drama**

3 (3-0)

Prerequisite: Six hours of sophomore English or consent of department chairman.

A survey of world drama from Ibsen to the present day.

**3273. Poetry**

3 (3-0)

Prerequisite: Six hours of sophomore English or consent of department chairman.

Reading and analysis of selected poetry.

**3293. Short Story**

3 (3-0)

Prerequisite: Six hours of sophomore English or consent of department chairman.

Reading and analysis of selected short stories.

**3303. Tragedy**

3 (3-0)

Prerequisite: Six hours of sophomore English or consent of department chairman.

A study of the tragic view of man in literature from the classical Greeks to the present, including philosophical background.

**3313. Comedy**

Prerequisite: Six hours of sophomore English or consent of department chairman.

A study of the comic vision of man in literature from the classical Greeks to the present, including philosophical background.

**3333. Satire**

3 (3-0)

Prerequisite: Six hours of sophomore English or consent of department chairman.

Theory of satire and study of its application in representative literary works.

**3343. The Novel**

3 (3-0)

Prerequisite: Six hours of sophomore English or consent of department chairman.

Reading and analysis of selected novels.

**3513. Advanced Grammar** 3 (3-0)

Prerequisite: Six hours of sophomore English.

Discussion and practice of techniques for the grammatical analysis of English sentence structures.

**3633. Mexican-American Literature and Culture** 3 (3-0)

Prerequisite: Six hours of sophomore English or consent of department chairman.

A study of the origins, development, and contributions of this culture as presented in Mexican-American literature. Emphasis is given to the contemporary scene.

**3703. American Literature and Life I** 3 (3-0)

Prerequisite: Six hours of sophomore English.

Thematic studies of the American literary, social, and cultural scene from the Puritans to the present.

**3713. American Literature and Life II** 3 (3-0)

Prerequisite: Six hours of sophomore English.

Contemporary American culture as reflected in American literature, social backgrounds, and the arts.

**FOR UNDERGRADUATES AND GRADUATES****4513. History of the English Language** 3 (3-0)

Prerequisite: Six hours of advanced English or consent of the department chairman.

The development of the sounds, forms, and structure of English and the implications of modern language problems.

**4523. Introduction to Linguistics** 3 (3-0)

Prerequisite: Six hours of sophomore English.

Methods and nature of language; the interlocking systems that make up language; methods of language analysis.

**COURSES IN AMERICAN LITERATURE****4623. The American Renaissance** (formerly American Romantic Movement) 3 (3-0)

Prerequisite: Three hours of advanced English or consent of department chairman.

The poetry and prose of Emerson, Thoreau, Poe, Hawthorne, Melville, and Whitman.

**4633. American Realism and Naturalism** 3 (3-0)

Prerequisite: Three hours of advanced English or consent of department chairman.

The realistic and naturalistic approaches in prose fiction with emphasis on Twain, Howells, James, Dreiser, Crane, and Norris.

**4643. Literature of the South and Southwest** 3 (3-0)

Prerequisite: Three hours of advanced English or consent of department chairman.

The patterns of southern and southwestern themes and culture as exhibited in the works of representative writers.



**4653. Modern American Literature**

3 (3-0)

Prerequisite: Three hours of advanced English or consent of department chairman.

A survey of the major American prose writers and dramatists of the first part of the 20th century.

**COURSES IN ENGLISH LITERATURE****4753. Old English Language and Literature** (formerly 4813)

Anglo Saxon Literature)

3 (3-0)

Prerequisite: Three hours of advanced English or consent of department chairman.

Language, literature, and world view of Anglo Saxon England. Emphasis on **Beowulf** and the epic tradition.

**4763. Middle English Language and Literature** (formerly 4823)

Medieval English Literature)

3 (3-0)

Prerequisite: Three hours of advanced English or consent of department chairman.

Language, literature, and world view of medieval England. Emphasis on Chaucer.

**4773. Shakespeare** (formerly 4323)

3 (3-0)

Prerequisite: Three hours of advanced English or consent of department chairman.

Shakespeare's art and thought as seen in drama and poetry.

**4833. English Renaissance Period**

3 (3-0)

Prerequisite: Three hours of advanced English or consent of department chairman.

Renaissance thought and culture as revealed by the poetry, prose, and drama of the age.

**4843. Seventeenth Century English** (formerly Cavalier, Puritan, and Metaphysical Writers)

3 (3-0)

Prerequisite: Three hours of advanced English or consent of department chairman.

Masterpieces of the 17th century. Emphasis on Donne and Milton.

**4853. Eighteenth Century English Literature**

3 (3-0)

Prerequisite: Three hours of advanced English or consent of department chairman.

The literature and intellectual currents of the period with emphasis on Pope, Swift, and Johnson.

**4863. The English Romantic Period** (formerly the Romantic Movement)

3 (3-0)

Prerequisite: Three hours of advanced English or consent of department chairman.

The literature and intellectual currents of the period with emphasis on Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats.

**4873. The Victorian Period**

3 (3-0)

Prerequisite: Three hours of advanced English or consent of department chairman.

The literature and major developments during the age of Tennyson, Browning, and Arnold.

**4883. Twentieth Century English Literature** 3 (3-0)

Prerequisite: Three hours of advanced English or consent of department chairman.

Authors and trends in English literature of the 20th century.

**4893. The English Novel** (formerly 3213) 3 (3-0)

Prerequisite: Three hours of advanced English or consent of department chairman.

Representative English novels with focus on the development of the genre, major themes, and techniques.

### COURSES IN WORLD LITERATURE

**4903. Selected Studies in Comparative Literature** 3 (3-0)

Prerequisite: Three hours of advanced English or consent of department chairman.

Comparative study of selected authors or themes of different cultures or times as reflected in literature. May be repeated for credit with changed content.

**4913. Russian Literature** (formerly 4413) 3 (3-0)

Prerequisite: Three hours of advanced English or consent of department chairman.

A study of such major writers as Pushkin, Gogol, Dostoyevsky, Tolstoy, and Chekhov.

**4923. Modern Poetry** (formerly Modern English and American Poetry)

3 (3-0)

Prerequisite: Three hours of advanced English or consent of department chairman.

Major voices in 20th century poetry including Pound, Eliot, Williams, Frost, and Stevens.

**4933. Modern World Literature**

3 (3-0)

Prerequisite: Three hours of advanced English or consent of department chairman.

A survey of the major authors and trends in world literature of the first part of the 20th century.

**4953. Contemporary Literature**

3 (3-0)

Prerequisite: Three hours of advanced English or consent of department chairman.

A selective study of recent literature.

### DIRECTED READING OR RESEARCH

**4993. Directed Reading or Research** (formerly 4943) 3 semester hours

Prerequisites: Six hours of advanced English, senior standing, and consent of department chairman.

Intensive study for the advanced student of a selected topic or area in language or literature. May be repeated for credit.

## FOR GRADUATES

5003. **Independent Research** 3 semester hours

Prerequisite: Graduate standing in English or consent of the chairman.

A tutorial course in which research in depth in a specific author or area is directed by a member of the English graduate faculty.

5011. **Teaching College English** 1 (1-0)

Prerequisite: Graduate standing in English or consent of the chairman.

Required of all graduate teaching assistants in English during first semester in residence.

An overview of problems and effective practices in the teaching of freshman English language and literature. Occasional demonstration sessions. Some attention given to the structure of courses at sophomore and advanced levels.

5313. **Chaucer** 3 (3-0)

Prerequisite: Graduate standing in English or consent of the chairman.

The narrative art of the **Canterbury Tales** and **Troilus and Criseyde**, with some attention to language and social backgrounds.

5353. **Major Authors** 3 (3-0)

Prerequisite: Graduate standing in English or consent of the chairman.

Comprehensive study of the work, life, and background of one or more major authors.

5513. **History of the English Language** 3 (3-0)

Prerequisite: Graduate standing in English or consent of the chairman.

The development of the sounds, forms, and structure of English and the implications of modern language problems.

5633. **Modern World Literature** 3 (3-0)

Prerequisite: Graduate standing in English or consent of the chairman.

A survey of the major authors and trends in world literature of the first part of the 20th century.

5653. **Modern American Literature** 3 (3-0)

Prerequisite: Graduate standing in English or consent of the chairman.

A survey of major American prose writers and dramatists of the first part of the 20th century.

5903. **Humanities I: Greece Through the Renaissance** 3 (3-0)

Prerequisite: Graduate standing in English or consent of the chairman.

A study of the humanities approach from Greece through the Renaissance.

5913. **Humanities II: The Age of Reason to the Present** 3 (3-0)

Prerequisite: Graduate standing in English or consent of the chairman.

A study of the humanities approach from the seventeenth century to the present.

5923. **Mexican-American Literature and Culture** 3 (3-0)

Prerequisite: Graduate standing in English or consent of the chairman.

Extensive research into the origins, development, and contributions of this culture as presented in Mexican, Mexican-American, and American literature. Emphasis is given to the contemporary scene.

5933. **American Literature and Culture** 3 (3-0)  
 Prerequisite: Graduate standing in English or consent of the chairman.  
 The study of various aspects of American culture as reflected in American literature, arts, philosophy, and social backgrounds.
6123. **Seminar: Studies in the Novel** 3 (3-0)  
 Prerequisite: Graduate standing in English or consent of the chairman.  
 Study in depth of one selected aspect of the novel.
6223. **Seminar: Studies in the Drama** 3 (3-0)  
 Prerequisite: Graduate standing in English or consent of the chairman.  
 Study in depth of one selected aspect of the drama.
6323. **Seminar: Studies in Poetry** 3 (3-0)  
 Prerequisite: Graduate standing in English or consent of the chairman.  
 Study in depth of one selected aspect of poetry.
6413. **Seminar: Studies in Comparative Literature** 3 (3-0)  
 Prerequisite: Graduate standing in English or consent of the chairman.  
 Study in depth of one selected period.
6613. **Seminar: Studies in American Literature** 3 (3-0)  
 Prerequisite: Graduate standing in English or consent of the chairman.  
 Study in depth of one selected period.
6813. **Seminar: Studies in English Literature** 3 (3-0)  
 Prerequisite: Graduate standing in English or consent of the chairman.  
 Study in depth of one selected period.
- 6983, 6993. **Thesis** 6 semester hours  
 Prerequisite: Completion of course work or consent of the department chairman.

## DEPARTMENT OF FOREIGN LANGUAGES

**Rudolf M. Klein, Chairman** (108 McCullough Building)

Associate Professors: Backhaus, Garcia, Klein

Assistant Professor: Volk

Instructors: Fatheree, Olson, Short

The requirements for the Bachelor of Arts degree with a major in French, German, or Spanish are as follows:

**General** (see page 30)

### **Departmental**

**Major** (18 semester hours beyond 2233)

**Minor** (12 semester hours beyond 2233)

The requirements for a degree of Bachelor of Science in Education in French, German, or Spanish may be found on page 121.

**Advanced Placement Program:** Students may earn credit by passing a departmental examination (with a grade of C or better) prior to registration. This allows bilingual students and others, whose test results warrant it, to enroll in advanced courses. See page 25 concerning proficiency exams and contact the chairman for more information.

## COURSES IN FRENCH

### 1133. **Elementary French** 3 (3-1)

For students who have had no previous instruction in the language or have had one year of high school French. Emphasis is placed on patterns of French pronunciation and grammar as well as the acquisition of basic reading, writing, and conversational skills.

One hour of laboratory practice a week is required. Fee: \$5.00.

### 1233. **Elementary French** 3 (3-1)

Prerequisite: French 1133.

Continuation of French 1133. One hour of laboratory practice a week is required. Fee: \$5.00.

### 2133. **Intermediate French** 3 (3-0)

Prerequisite: French 1233.

Detailed study of French grammatical structures, particularly those which merit special attention. Study and use of the most common French idioms through conversation, synonyms, antonyms, and principles of composition.

### 2233. **Intermediate French** 3 (3-0)

Prerequisite: French 2133.

Continuation of French 2133.

### 3013. **French Civilization** 3 (3-0)

Prerequisite: French 2233.

Study of historical facts, culture, art, and general customs of the people of France.

### 3133. **Survey of French Literature** 3 (3-0)

Prerequisite: French 2233.

A history and general survey of the French literature of the Middle Ages, the Renaissance, and the Classical Period.

### 3233. **Survey of French Literature** 3 (3-0)

Prerequisite: French 2233.

A history and general survey of the French literature of the period of the Encyclopedists and Philosophes, of Romanticism and Realism, and study of modern trends in French literature.

### 3333. **French Conversation and Composition** 3 (3-0)

Prerequisite: French 2233.

Intensive practice in conversation aimed at attaining fluency. Class discussion of compositions to improve grammar and style. This course should precede other advanced courses if feasible.

### 4133. **Nineteenth Century French Literature** 3 (3-0)

Prerequisite: Three hours of advanced French.

Reading in representative works of French Romanticism, Realism, and Naturalism.



**4233. French Classical Literature** 3 (3-0)

Prerequisite: Three hours of advanced French.

Readings in representative works of French classical literature.

**4333. Contemporary French Literature** 3 (3-0)

Prerequisite: Three hours of advanced French.

Studies of the most representative novels of the twentieth century.

**4533. Selected Problems in French Literature** 3 semester hours

Prerequisites: French 3233; for advanced students or consent of instructor and chairman of department.

Special topics assigned for research and investigation and discussed in seminar or tutorial session.

**4633. French Literature: The Age of Enlightenment** 3 (3-0)

Prerequisite: Three hours of advanced French.

Readings and representative works of the French Philosophes and other authors of the eighteenth century.

**4733. French Literature of the Renaissance** 3 (3-0)

Prerequisite: Three hours of advanced French.

A study of the movements and major writers of the sixteenth century from Rabelais to Montaigne.

**COURSES IN GERMAN****1133. Elementary German** 3 (3-1)

For students who have had no previous instruction in the language or have had one year of high school German. Emphasis is placed on patterns of German pronunciation and grammar as well as the acquisition of basic reading, writing, and conversational skills.

One hour a week of laboratory practice is required. Fee: \$5.00.

**1233. Elementary German** 3 (3-1)

Prerequisite: German 1133.

Continuation of German 1133. One hour a week of laboratory practice is required. Fee: \$5.00.

**2133. Intermediate German** 3 (3-0)

Prerequisite: German 1233.

A detailed study of German grammatical structures, synonyms, antonyms, and principles of composition. Study and use of the most common German idioms through conversation.

**2233. Intermediate German** 3 (3-0)

Prerequisite: German 2133.

Continuation of German 2133.

**3013. German Civilization** 3 (3-0)

Prerequisite: German 2233.

Study of historical facts, culture, art, political life, and general customs of the people in Germany.

- 3133. Survey of German Literature** 3 (3-0)  
 Prerequisite: German 2233.  
 A history and general survey of the German literature of the Middle Ages to the eighteenth century.
- 3233. Survey of German Literature** 3 (3-0)  
 Prerequisite: German 2233.  
 A history and general survey of German literature from the classical period to the present.
- 3333. German Drama** 3 (3-0)  
 Prerequisite: German 2233.  
 Trends of German drama in representative works.
- 3423. German Conversation and Composition** 3 (3-0)  
 Prerequisite: German 2233.  
 Intensive practice in conversation aimed at attaining fluency. Class discussion of compositions to improve grammar and style. This course should precede other advanced courses if feasible.
- 3433. The Contemporary German Novel** 3 (3-0)  
 Prerequisite: German 2233.  
 Surveys, trends, and critical issues of post-war writings. Analysis and discussions of major works.
- 4133. German Novelle** 3 (3-0)  
 Prerequisite: Three hours of advanced German.  
 The **Novelle** from the earliest time to the present.
- 4233. German Poetry** 3 (3-0)  
 Prerequisite: Three hours of advanced German.  
 Poetic genre as they are represented in German literature.
- 4333. German Literature of the Twentieth Century** 3 (3-0)  
 Prerequisite: Three hours of advanced German.  
 Significant writing of twentieth-century German authors.
- 4533. Selected Problems in German Literature** 3 semester hours  
 Prerequisites: German 3233; for advanced students or consent of instructor and department chairman.  
 Special topics assigned for research and investigation and discussed in seminar or tutorial sessions.

## COURSES IN SPANISH

- 1103. Conversational Spanish** 3 (3-0)  
 A practical approach to Spanish reading and conversation. Emphasis in pronunciation, vocabulary, phrases, and everyday Spanish. Elective credit only.
- 1123. Conversational Spanish** 3 (3-0)  
 Prerequisite: Spanish 1103.  
 Continuation of Spanish 1103.
- 1133. Elementary Spanish** 3 (3-1)  
 For students who have had no previous instruction in the language or have had one year of high school Spanish. Emphasis is placed on patterns of

Spanish pronunciation and grammar as well as the acquisition of basic reading, writing, and conversational skills.

One hour of laboratory practice a week is required. Fee: \$5.00

**1233. Elementary Spanish** 3 (3-1)

Prerequisite: Spanish 1133.

Continuation of Spanish 1133. One hour of laboratory practice a week is required. Fee: \$5.00

**2133. Intermediate Spanish** 3 (3-0)

Prerequisite: Spanish 1233.

Detailed study of Spanish grammatical structures, particularly those which merit special attention. Study and use of the more common Spanish idioms through conversation. Synonyms and antonyms, and principles of composition.

**2233. Intermediate Spanish** 3 (3-0)

Prerequisite: Spanish 2133.

Continuation of Spanish 2133.

**3013. Spanish Civilization** 3 (3-0)

Prerequisite: Spanish 2233.

Study of historical facts, culture, art, political life, and general customs of the people of Spain.

**3023. Spanish American Civilization** 3 (3-0)

Prerequisite: Spanish 2233.

Study of the culture, history, economy, geography, art, and political life of the Spanish American people.

**3133. Survey of Spanish Literature** 3 (3-0)

Prerequisite: Spanish 2233.

A history and general survey of Spanish literature from the Middle Ages to the 17th century. Outside readings and reports in Spanish.

**3233. Survey of Spanish Literature** 3 (3-0)

Prerequisite: Spanish 2233.

A history and general survey of Spanish Romanticism and Realism, and study of modern trends in modern Spanish literature. Outside reading and reports in Spanish.

**3333. Spanish Conversation and Composition** 3 (3-0)

Prerequisite: Spanish 2233.

Intensive practice in conversation aimed at attaining fluency. Class discussion of compositions to improve grammar and style. This course should precede other advanced courses if feasible.

**3533. Survey of Spanish American Literature** 3 (3-0)

Prerequisite: Spanish 2233.

Introductory study of Spanish American literature from colonial times to the 18th century.

**3633. Survey of Spanish American Literature** (3-0)

Prerequisite: Spanish 2233.

Introductory study of Spanish American literature from the 18th century to the present.

4233. **The Golden Age** 3 (3-0)  
 Prerequisite: Three hours of advanced Spanish.  
 Study of representative works of the period. Reports in Spanish.
4333. **Modern Novel** 3 (3-0)  
 Prerequisite: Three hours of advanced Spanish.  
 Critical study of representative novels of Spain and Latin America.
4443. **Spanish Romanticism and Realism** 3 (3-0)  
 Prerequisite: Three hours of advanced Spanish.  
 Study of selected authors of the early and middle nineteenth century.
4633. **Selected Problems in Spanish Literature** 3 (3-0)  
 Prerequisites: At least one 4000 course; for advanced students or consent of instructor and department chairman.  
 Special topics assigned for research and investigation and discussed in seminar or tutorial sessions.

#### **Special Study in Foreign Language**

Prerequisite: Satisfactory score on the Psychological Testing Corporation Language Aptitude Test.

If the study of a foreign program other than those offered is necessary to a student's program, he may, with the consent of the dean of the school and the department chairman, be allowed to pursue the study of that language for a maximum of eight semester hours credit.

### **DEPARTMENT OF HISTORY**

**Kenneth E. Hendrickson Jr., Chairman**

(107 Martin Building)

Professors: Cravens, Hendrickson, Monahan, Neighbours

Associate Professors: Hewitt, King, Powers

Assistant Professors: Becker, Kindig

The requirements for the degree of Bachelor of Arts with a major in history are as follows:

**General** (see page 30)

#### **Departmental**

**Major** (30 semester hours)

History 1133, 1233, 1333, 1433, and 18 additional semester hours of which 15 must be advanced

**Minor** to be selected in a field acceptable to the chairmen of the major and minor departments

#### **REQUIREMENTS FOR A MINOR IN HISTORY** (21 semester hours)

History 1133, 1233, 1333, 1433, and nine additional advanced semester hours, selected with approval of the department adviser

## GRADUATE PROGRAMS

The requirements for the degree of Master of Arts with a major in history are as follows:

**General** (see page 306)

### Departmental

**Major:** 30 semester hours of approved courses, including History 6983, and 6993; or, if a minor is selected, a minimum of 18 semester hours of approved courses including 6983 and 6993

**Minor:** A minimum of 12 semester hours of approved courses in history with the exception that education majors selecting a divided minor may be approved for a nine-hour minor by the department chairman

## COURSES IN HISTORY

### FOR UNDERGRADUATES

#### 1133. Survey of American History to 1865 3 (3-0)

General survey of American history from its European origins to 1865. Required of all students.

#### 1233. Survey of American History Since 1865 3 (3-0)

General survey of American history from 1865 to the present. Required of all students.

#### 1333. Survey of Western Civilization 3 (3-0)

General survey of Western civilization from its ancient beginnings through the Reformation. Required of all history majors and minors.

#### 1433. Survey of Western Civilization 3 (3-0)

General survey of Western civilization from the Reformation to the present. Required of all history majors and minors.

#### 3013. History of Texas 3 (3-0)

Prerequisite: Six hours of American history.  
History of Texas through 1846.

#### 3023. History of Texas 3 (3-0)

Prerequisite: Six hours of American history.  
History of Texas since 1846.

#### 3033. Colonial America 3 (3-0)

Prerequisite: Six hours of American history.  
History of British North American colonies to independence.

#### 3133. History of England 3 (3-0)

Prerequisite: Six hours of history.  
England from earliest times, through the period of the Stuarts.

#### 3143. History of England 3 (3-0)

Prerequisite: Six hours of history.  
England from the time of the Hanoverian monarchs to the present.



3233. **Ancient Greece and Rome** 3 (3-0)  
Survey of the political, social, and cultural history of the ancient world from the Greek Archaic period to the decline of Roman authority in the West.
3503. **Autocrat, Nobleman, and Peasant in Pre-Modern Russia** 3 (3-0)  
A survey of Russian history from earliest times to the peak of Romanov power and prestige.
3513. **Russia and the U.S.S.R. in Transition** 3 (3-0)  
Russian history from 1801 to the present.
3803. **Survey of Eastern Asia** 3 (3-0)  
The origin and development of China, Japan, and Korea to the nineteenth century.
3813. **Survey of Eastern Asia** 3 (3-0)  
China, Japan, and Korea in the nineteenth and twentieth centuries.
3833. **Latin American History, Colonial Period** 3 (3-0)  
Prerequisite: Six hours of history.  
Discovery, conquest, settlement, and development of the Latin American area during the colonial period.
3843. **Latin American History, Republican Period** 3 (3-0)  
Prerequisite: Six hours of history.  
Development of the Latin American nations since independence.

#### FOR UNDERGRADUATES AND GRADUATES

4003. **Science and Society** (formerly 3003) 3 (3-0)  
A study of the interconnection between science and social needs throughout the course of Western history. The course will approach the concept of science through its underlying philosophy, method, and technological application, as well as scientific pursuits and accomplishments.
4023. **The Age of Washington and Jefferson** 3 (3-0)  
(formerly Early National Period)  
Prerequisite: Six hours of history or consent of the instructor.  
The study of an emerging nation.
4033. **The Jacksonian Era** 3 (3-0)  
Prerequisite: Six hours of American history or consent of the instructor.  
The political, economic, and social development of the United States during the Age of Jackson.
4043. **The Old South** 3 (3-0)  
Prerequisite: Six hours of American history or consent of the instructor.  
The Old South from colonial times to the Civil War.
4053. **Civil War and Reconstruction** 3 (3-0)  
Prerequisite: Six hours of American history or consent of the instructor.  
United States history from the origin of the Civil War to the end of the period of Reconstruction.
4073. **The Era of Reform: Populism and Progressivism in America** 3 (3-0)  
Prerequisite: Six hours of American history or consent of the instructor.  
A study of the background and development of the agrarian reform

movements of the late nineteenth century culminating in the rise and fall of the Populist Party, the urban-industrial reform movements in America during the early twentieth century including municipal, general political, labor, child labor, social welfare, and other movements.

**4133. America: From the Jazz Age to the Thermo-Nuclear Age** 3 (3-0)

Prerequisite: Six hours of American history or the consent of instructor.

A study of American life during the Twenties and the Thirties with emphasis upon economic and social prosperity and collapse, Roosevelt and the New Deal, the Second World War, and the era of the Cold War.

**4143. The New South** 3 (3-0)

Prerequisite: Six hours of American history or consent of the instructor.

The development of the "New South" from the legacy of the Civil War and Reconstruction. Southern politics, economics, cultural and industrial development.

**4153. The American City** 3 (3-0)

Prerequisite: Six hours of American history or consent of the instructor.

A study of historical patterns of urbanization and the developing urban social structure. Early American cities, the impact of business and industry, and the development of the super city.

**4173. History of Mexico** 3 (3-0)

Prerequisite: Six hours of history or consent of the instructor.

A survey of Mexican history from Pre-Hispanic times to the present with emphasis on the National Period 1820-1967, which includes the age of Santa Anna, La Reforma, the Diaz Dictatorship, and the Revolution of 1910.

**4183. Argentina, Brazil, and Chile** 3 (3-0)

Prerequisite: Six hours of history or consent of the instructor.

Political, social, and economic development of Argentina, Brazil, and Chile since independence.

**4213. Foundations of Medieval Europe** 3 (3-0)

Europe from the decline of the Roman empire to the High Middle Ages. A study of the cultural, political, and economic foundations of western civilization.

**4223. Europe in the Later Middle Ages** 3 (3-0)

Europe from the High Middle Ages to the Renaissance with emphasis on Medieval thought and institutions.

**4233. History of American Thought** 3 (3-0)

Prerequisite: Six hours of history or consent of the instructor.

A study of the sources of American cultural and institutional development.

**4243. History of Medieval England** 3 (3-0)

English society and institutions from the Anglo-Saxon period to the accession of Henry VII.

**4253. Renaissance and Reformation** 3 (3-0)

Topical study of the cultural aspects of the Renaissance with a detailed analysis of the Reformation.

- 4273. The Age of Enlightenment** 3 (3-0)  
The history of the intellectual, cultural, and political development of the seventeenth and eighteenth centuries.
- 4333. Nineteenth Century Europe, 1789-1914** 3 (3-0)  
Prerequisite: Six hours of history or consent of the instructor.  
Europe from the French Revolution to World War I. Emphasis upon the results of the French Revolution and the influence of Napoleon, the struggle for democratic principles, industrialization, the unification of Italy and Germany, the expansion of colonial empires, and the underlying causes of World War I.
- 4343. The Negro in America** 3 (3-0)  
Prerequisite: Six hours of American History.  
An analysis of the Black American as a factor in the social, political, and economic development of the United States from colonial times to the present.
- 4433. Twentieth Century Europe** 3 (3-0)  
Prerequisite: Six hours of history.  
Development of Europe from the beginning of the twentieth century to the present with emphasis on developments since World War I.
- 4503. Imperial Russia: The Tsarist and Soviet Empires** 3 (3-0)  
Prerequisite: Six hours of history or consent of the instructor.  
An examination of the most significant factors in the development of Tsarist and Soviet Russia.
- 4523. Eastern Europe** 3 (3-0)  
Prerequisite: Six hours of history or consent of the instructor.  
An examination of Eastern European, especially Balkan, history from the 15th century to the present. The modern period and the impact of industrial development upon an essentially static agrarian society will be emphasized.
- 4603. The American Frontier, 1607-1815** 3 (3-0)  
Prerequisites: Six hours of American history and consent of the instructor.  
American expansion from colonial beginnings to the breaching of the Mississippi barrier.
- 4613. The Trans-Mississippian West, 1815 to 1890** 3 (3-0)  
Prerequisite: Six hours of American history or consent of the instructor.  
American expansion into the Trans-Mississippian area until 1890.
- 4643. United States-Latin American Relations** 3 (3-0)  
Prerequisites: Six hours each of history and political science, and consent of the instructor.  
Survey of the relations of the United States with the area of Latin America from United States independence to the present.
- 4803. Modern China** 3 (3-0)  
Prerequisite: History 3803 or 3813 or consent of the instructor.  
China in the nineteenth and twentieth centuries.
- 4943. Seminar in History** 3 (3-0)  
Prerequisite: Six hours of history or consent of the instructor.  
A study of important issues and problems in history emphasizing independent reading, research, writing, and bibliographical work.

**4953. Problems in History**

3 (3-0)

Prerequisite: Six hours of history or consent of the instructor.

Undergraduate readings course. Directed reading and research. May be repeated for credit.

**FOR GRADUATES****5003. Research Course in History**

3 (3-0)

Prerequisites: 15 hours of history and consent of the instructor.

Completion of a project of directed reading and research. May be repeated for credit.

**5011. The Teaching of College History**

1 (1-0)

Prerequisite: Graduate standing.

Required of all graduate teaching assistants during each semester of the first year in residence.

An overview of problems and effective practices in the teaching of American history at the survey level.

**5013. Historiography**

3 (3-0)

Prerequisite: Graduate standing in history.

American or European historiography as need demands.

**5053. Civil War and Reconstruction**

3 (3-0)

Prerequisite: Graduate standing in history.

United States history from the origin of the Civil War to the end of the period of Reconstruction.

**5103. Documentary Studies in Modern European History**

3 (3-0)

In depth study of the techniques involved in the use of source materials for historical research. Various periods of modern European history will be analyzed in the process. Lectures, readings, reports, and a paper.

**5113. Politicians, Parties, and Partisanship, 1815-1860**

3 (3-0)

In depth study of the rise and fall of America's first modern party system during the age of Jackson and Lincoln. Particular attention to popular campaigns, conventions, and other structural innovations. Lectures, readings, reports, and a paper.

**5133. America: From the Jazz Age to the Thermo-Nuclear Age**

3 (3-0)

Prerequisite: Graduate standing in history.

A study of American life during the Twenties and the Thirties with emphasis upon economic and social prosperity and collapse, Roosevelt and the New Deal, the Second World War, and the era of the Cold War.

**5173. History of Mexico**

3 (3-0)

Prerequisite: Graduate standing in history.

A survey of Mexican history from Pre-Hispanic times to the present with emphasis on the National Period 1820-1967, which includes the age of Santa Anna, La Reforma, the Diaz Dictatorship, and the Revolution of 1910.

**5203. Documentary Studies in American History**

3 (3-0)

In depth study of the techniques involved in the use of source materials for historical research. Various events and topics in American history will be analyzed in the process. Lectures, readings, reports, and a paper.



- 5233. History of American Thought** 3 (3-0)  
Prerequisite: Graduate standing in history.  
A study of the sources of American cultural and institutional development.
- 5253. Renaissance and Reformation** 3 (3-0)  
Topical study of the cultural aspects of the Renaissance with a detailed analysis of the Reformation.
- 5263. The South in American History** 3 (3-0)  
Prerequisite: 15 hours of history and consent of the instructor.  
Study of the contributions of the South to American history.
- 5303. Medieval Institutions** 3 (3-0)  
Advanced study of the political, legal, religious and economic institutions of medieval Europe.
- 5353. The Reformation and Politics** 3 (3-0)  
Study on the advanced level of the interaction between the Reformation and the political activity of Early Modern Europe, both on the practical and the theoretical level.
- 5433. Twentieth Century Europe** 3 (3-0)  
Prerequisite: Graduate standing in history.  
Development of Europe from the beginning of the twentieth century to the present with emphasis on developments since World War I.
- 5503. Topics in Russian History** 3 (3-0)  
Examination of such events as the revolutionary movement, the role of the nobility in Russia, Anglo-Russian relations, the Stalinist era. Lectures, readings, and a research paper.
- 5613. The Trans-Mississippian West, 1815-1890** 3 (3-0)  
Prerequisite: Graduate standing in history.  
American expansion into the Trans-Mississippian area until 1890.
- 5713. British Constitutional Development** 3 (3-0)  
Study of the development of the British Constitution.
- 5853. Contemporary Latin American Development** 3 (3-0)  
Prerequisites: 15 hours of history and consent of the instructor.  
Review of twentieth century political, social, and economic trends in Latin America.
- 6013. Seminar: Studies in Early American History** 3 (3-0)  
Prerequisite: Graduate standing.  
Study in depth of selected events or topics.
- 6023. Seminar: Studies in Recent American History** 3 (3-0)  
Prerequisite: Graduate standing.  
Study in depth of selected events or topics.
- 6033. Seminar: Studies in Early European History** 3 (3-0)  
Prerequisite: Graduate standing.  
Study in depth of selected events or topics.
- 6043. Seminar: Studies in Modern European History** 3 (3-0)  
Prerequisite: Graduate standing.  
Study in depth of selected events or topics.



**6053. Seminar: Studies in Latin American History**

3 (3-0)

Prerequisite: Graduate standing.

Study in depth of selected events or topics.

**6063. Seminar: Studies in Russian History**

3 (3-0)

Prerequisite: Graduate standing.

Study in depth of selected events or topics.

**6983, 6993. Thesis**

6 semester hours

**DEPARTMENT OF MUSIC****Donald Maxwell, Chairman** (102 Music Building)

Professors: I. Boland, W. Boland, Hughes

Associate Professors: Hough, Maxwell

Assistant Professors: Atkinson, Crews, Cunningham,

Jennings, Jorgensen, Lewis, Tonkinson

Instructor: Inman

The Department of Music offers the following five programs for music majors:

**UNDERGRADUATES**

Bachelor of Arts degree

Bachelor of Music degree

Bachelor of Music Education degree

**GRADUATE**

Master of Music degree

Master of Music Education degree

Course requirements for the degrees are listed on the following pages.

**GENERAL INFORMATION****ENTRANCE REQUIREMENTS**

The general requirements for admission to a curriculum leading to a music degree are those indicated in the catalog for all degrees. Entering students will be required to take music placement tests in order that they may be enrolled in courses which will best meet their needs. Preparatory study or considerable experience in the field of applied music concentration is required of all majors in the department.

Graduate students will be tested for placement in the areas of theory, music history, and the area of performance for majors in applied music.

Advanced standing classification of transfer students will be regarded as tentative until established by placement tests and scholastic standing. A working knowledge of a keyboard instrument is desirable for students majoring in voice, string, or wind instruments.

**MUSIC PLACEMENT TEST**

All beginning freshman music majors and minors and all transfer music students will be required to take a music placement test in theory. This test

will be conducted under the supervision of the music faculty. The chairman of the Department of Music will supply detailed information upon request.

Before a student pursues work in applied music for credit, he must take a placement test administered by the music faculty.

### ENTRANCE REQUIREMENTS IN APPLIED MUSIC

**Piano.** The performance of major and minor scales, arpeggios, chords; three works of contrasting styles from baroque, classical, romantic and contemporary literature.

**Voice.** Entrance requirements include an elementary knowledge of piano, some ability in sight-reading, and the ability to sing standard songs and the simpler classics in good English, on pitch, with correct phrasing and musical intelligence. All students who are entering the applied voice program must sing for the voice faculty before enrolling in either applied or class voice.

**Organ.** The student should have completed sufficient piano study to enable him to play Bach compositions, sonatas of the classic school, and easier compositions of the romantic school. Candidates for the Bachelor of Music degree should have attained and proved efficiency in organ techniques and literature. A student with sufficient piano facility may be admitted directly as an organ major following a satisfactory audition in piano.

**Strings.** A student should have acquired a fundamental working knowledge of his instrument, and must be able to play scales and simple studies and compositions. The entrance examination for candidates for the Bachelor of Music degree will include major and minor scales and arpeggios, a study, two compositions (one for tone, the other for technical facility), sight-reading, and an elementary knowledge of piano.

**Winds.** The student should have acquired the fundamentals of good tone production, breath control, hand position, an elementary knowledge of major and minor scales and arpeggios, and the ability to perform material of good musical quality.

### PROFICIENCY EXAMINATIONS

All music majors, with the exception of keyboard majors, will study secondary piano or organ each semester until the keyboard proficiency is passed. A minimum of four semester hours of applied secondary must be completed, exclusive of class piano. If the keyboard proficiency is passed before four semester hours are completed, any other secondary applied may be used to complete the four hours of applied secondary. Entering students with exceptional keyboard background may petition the keyboard faculty for a waiver of requirements through jury examination.

Music majors and minors who desire certification to teach vocal music in public schools and whose applied concentration is other than voice will be required to study a minimum of four semesters of voice and pass a voice proficiency.

### PROMOTION TO UPPER LEVEL

Students majoring in applied music may not begin junior level courses in applied music (3000 numbers) in their concentration until passed to upper level by their respective faculty jury.

### **RECITAL REQUIREMENTS**

A half junior and a full senior recital will be required of all students majoring in applied music under the Bachelor of Music degree program. Majors in composition and theory will produce a full original senior recital. Candidates for the degree of Bachelor of Music Education must prove satisfactory performance ability in at least a half-recital before graduation.

### **RECITAL ATTENDANCE REQUIREMENTS**

Each student will be required to enroll in RECITAL ATTENDANCE (1000) every semester of enrollment. This course will be required for graduation but will carry no semester hours credit toward a degree.

Grading will be by pass/fail. Points will be awarded in the following manner: one point for each Wednesday recital; two points for each evening or Sunday recital. Each semester a specific number of points will be required for a passing grade. Failure to acquire the required number of points will result in a failing grade for the semester.

Part-time students will be required to attend an amount which is in ratio to the number of hours in which they are enrolled.

**Music majors must pass a minimum of eight semesters. Students will not be cleared for graduation until these requirements are met.**

### **PRACTICE REQUIREMENTS**

A minimum of one hour of practice each day Monday through Friday is required in applied music courses of one semester hour credit. A minimum of two hours of practice each day is required in applied music courses of two semester hours credit and minimum of three hours of practice each day is required in applied music courses of three semester hours credit.

### **SECONDARY APPLIED MUSIC**

A student desiring instruction in applied music other than that received in the field of his concentration may enroll for courses in secondary applied music. With less emphasis upon performance, this area of instruction is designed to further a student's sight-reading proficiency and to improve his facility in the secondary field of his choice.

### **SCHOLARSHIPS AND ASSISTANTSHIPS**

**Undergraduate Scholarships** will be awarded to talented high school seniors and undergraduate students who desire to enroll at Midwestern State University. The values of these awards will vary depending upon the experience and training of each individual recipient.

**Teaching Assistantships** are made available annually by the Department of Music and the Graduate School. Applications for teaching assistantships must be submitted by April 1. Tape recordings may be utilized when an audition is inconvenient. Applicants must take the Graduate Record Examination before being considered for an assistantship.

**Note:** See department chairman for additional information concerning assistantships or scholarships.

## UNDERGRADUATE PROGRAMS

### REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE

#### Music Major

The requirements for the degree of Bachelor of Arts with a major in music are as follows:

**General** (see page 30)

#### Departmental

**Major** (37 semester hours plus ensemble)

|   | Concentration in<br>Applied Music | OR | Theory-Music<br>Literature |
|---|-----------------------------------|----|----------------------------|
| Music Theory 1603, 1613,<br>2603, 2613  | 12                                |    | 12                         |
| Music Literature 1702, 1712             | 4                                 |    | 4                          |
| History of Music 4703, 4713             | 6                                 |    | 6                          |
| Conducting 4843 or 4853                 | 3                                 |    | 3                          |
| Primary Applied Music                   | 12 (6 adv.)                       |    | 8 (4 adv.)                 |
| Counterpoint 3622                       | 0                                 |    | 2                          |
| Orchestration 3662                      | 0                                 |    | 2                          |
|   | —                                 |    | —                          |
|   | 37                                |    | 37                         |
| Ensemble (Band, Orchestra,<br>or Choir) | 8                                 |    | 8                          |
| Recital Attendance 1000                 | 8 semesters                       |    | 8 semesters                |

Participation in at least one major ensemble for credit each semester of enrollment in a regular session at Midwestern State University until eight semesters have been completed.

**Minor:** The minor may be in any department. See department listings for requirements.

**Additional electives** to total 124 hours

### REQUIREMENTS FOR MINOR IN MUSIC (21 semester hours)

Theory 1603, 1613, applied music concentration (4 semesters), four hours of major ensemble, and seven additional hours of which six must be advanced. Proficiency must be passed in the applied music area.

### REQUIREMENTS FOR THE BACHELOR OF MUSIC DEGREE

**Majors:** Theory/Composition, Woodwind, Brass, and String Instruments

#### General

English 1113, 1123, and six hours of sophomore literature

History 1133, 1233

Political Science 1333, 1433

Electives (6 hours of French and 6 hours of German are suggested, but other academic courses may be substituted)

Physical Education (4 hours) or ROTC (8 hours)

**Departmental****Major**

|   | Concentration in<br>Applied Music | OR | Theory and<br>Composition |
|---|-----------------------------------|----|---------------------------|
| Music Theory 1603, 1613,<br>2603, 2613  | 12                                |    | 12                        |
| Music Literature 1702, 1712   | 4                                 |    | 4                         |
| History of Music 4703, 4713   | 6                                 |    | 6                         |
| Conducting 4843, 4853   | 6                                 |    | 6                         |
| Class Lessons in Applied Music<br>1142, 1152, 1162, 1172,<br>1182, 1192   | 12                                |    | 12                        |
| Counterpoint 3622   | 2                                 |    | 2                         |
| Orchestration 3662  | 2                                 |    | 2                         |
| *Primary Applied Music  | 24 (12 adv.)                      |    | 16 (8 adv.)               |
| **Ensemble  | 8                                 |    | 8                         |
| Recital Attendance 1000 (enrollment<br>required every semester that<br>student is enrolled as a music<br>major) |                                   |    |                           |
| Composition 1691  | 0                                 |    | 4                         |
| Composition 3691  | 0                                 |    | 4                         |
| Secondary Applied   | 4                                 |    | 4                         |
| Advanced Electives (music)  | 12                                |    | 12                        |

\*Applied music majors will enroll in Primary Applied Music Concentration for three semester hours credit each semester. Theory and Composition majors will enroll in Primary Applied Music Concentration for two semester hours credit each semester.

\*\*Participation in at least one major ensemble for credit each semester of enrollment in a regular session at Midwestern State University until eight semester hours have been completed.

**REQUIREMENTS FOR THE BACHELOR OF MUSIC DEGREE**

**Major:** Piano, Voice, Organ

**General**

English 1113, 1123 and six semester hours of sophomore literature

History 1133, 1233

Political Science 1333, 1433

Electives (12 hours - except voice concentrations who are required to take

French 1133 and 1233 and German 1133 and 1233 totaling 12 hours)

Physical Education (4 hours) or ROTC (8 hours)

**Departmental****Major**

|                                     | Voice | Piano or<br>Organ |
|-------------------------------------|-------|-------------------|
| Music Theory 1603, 1613, 2603, 2613 | 12    | 12                |
| Music Literature 1702, 1712         | 4     | 4                 |
| History of Music 4703, 4713         | 6     | 6                 |
| Conducting 4843, 4853               | 6     | 6                 |



|  |    |    |
|--|----|----|
| Counterpoint 3622  | 2  | 2  |
| Orchestration 3662   | 2  | 2  |
| Primary Applied Music  | 24 | 24 |
| *Ensemble  | 8  | 8  |
| Recital Attendance 1000 (enrollment required every semester that student is enrolled as a music major) |    |    |
| Drama 1411   | 1  | 0  |
| Drama 2533   | 3  | 0  |
| Secondary Applied Music  | 8  | 8  |
| Advanced Music Electives   | 14 | 18 |

## REQUIREMENTS FOR THE BACHELOR OF MUSIC EDUCATION DEGREE

### All Level Certification, Vocal

#### General

Education 3133, 3333; 3233 or 3433; 4333, 4513; and one of the following:  
4003, 4203, 4313, 4343, 4423 or 4833

English 1113, 1123, and six semester hours of sophomore literature

History 1133, 1233

Political Science 1333, 1433

12 semester hours from two of the following: foreign language (six hours minimum in one language), mathematics or science

Physical Education (4 hours) or ROTC (8 hours)

#### Departmental

#### Major

|   |    |
|---|----|
| Music Theory 1603, 1613, 2603, 2613   | 12 |
| Music Literature 1702, 1712   | 4  |
| History of Music 4703, 4713   | 6  |
| Conducting 4843, 4853   | 6  |
| Class Lessons in Applied Music<br>1142 or 1152; 1162 or 1172; 1182 or 1192                                | 6  |
| Primary Applied Music   | 16 |
| Counterpoint 3622   | 2  |
| Orchestration 3662  | 2  |
| Music Education 4813, 4823  | 6  |
| *Ensemble   | 8  |
| Recital Attendance 1000 (enrollment required every semester<br>that student is enrolled as a music major) |    |
| **Secondary Applied Music   | 4  |

\*Participation in at least one major ensemble for credit each semester of enrollment in a regular session at Midwestern State University until eight semesters have been completed.

\*\*Keyboard major; secondary means voice. Vocal major, secondary means piano or organ.

## REQUIREMENTS FOR THE BACHELOR OF MUSIC EDUCATION DEGREE

### All Level Certification, Instrumental

**General**

English 1113, 1123, and six hours of sophomore literature

History 1133, 1233

Political Science, 1333, 1433

12 semester hours from two of the following: foreign language (six hours minimum in one language), mathematics, or science

Physical Education (4 hours) or ROTC (8 hours)

Education 3133, 3333, 3233 or 3433, 4333, 4513; and one of the following: 4003, 4203, 4313, 4343, 4423, or 4833

**Departmental****Major**

|   |    |
|---|----|
| Music Theory 1603, 1613, 2603, 2613   | 12 |
| Music Literature 1702, 1712   | 4  |
| History of Music 4703, 4713   | 6  |
| Conducting 4843, 4853   | 6  |
| Orchestration 3662  | 2  |
| Class Lessons in Applied Music<br>1142, 1152, 1162, 1172, 1182, 1192                                      | 12 |
| Primary Applied Music   | 12 |
| Counterpoint 3622   | 2  |
| Music Education 4813, 4823  | 6  |
| *Ensemble   | 8  |
| Recital Attendance 1000 (enrollment required every semester<br>that student is enrolled as a music major) |    |
| Secondary Applied Music   | 4  |

\*Participation in at least one major ensemble for credit each semester of enrollment in a regular session at Midwestern State University until eight semesters have been completed.

\*\*Keyboard major; secondary means voice. Vocal major, secondary means piano or organ.

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## SPECIAL MUSIC PROGRAMS

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### FIVE YEAR CURRICULUM LEADING TO THE DEGREES OF BACHELOR OF MUSIC AND BACHELOR OF MUSIC EDUCATION

A special five year program is available leading to the granting of two degrees in music — Bachelor of Music and Bachelor of Music Education. Requirements for entrance and for satisfactory completion of this program are as follows:

1. Each student must meet rigid standards in his performance concentration so that he can satisfy the proficiency criteria for both a junior recital and a senior recital.
2. Each student must satisfy the requirements for successful entrance into teacher candidacy as outlined by the Teacher Education Committee.
3. Each student must complete and satisfy the general university requirements for graduation as specified for both degrees.

For additional information, contact the department chairman.

### **AN ACCELERATED PROGRAM FOR THE BACHELOR OF ARTS DEGREES OR THE BACHELOR OF MUSIC OR MUSIC EDUCATION DEGREES**

Talented young music students may enroll in an accelerated program in music which would enable high school students who have demonstrated their musical and scholastic abilities to complete the four-year curricula leading to the Bachelor of Arts, Bachelor of Music, or Bachelor of Music Education degrees in one year less than the traditional program. This would save these talented students the expense and time of one full academic year.

This program further gives them the benefit of study with university instructors at an earlier age when technique is more readily acquired, and thus encourages faster progress toward an earlier career as a teacher in the public schools, universities, colleges, or as professional performers.

Students who desire admission to this special program must give evidence of musicianship and performance ability equal to the college freshman admitted to the Music Department of Midwestern State University. They must also have and maintain a scholastic average of 3.0 or B, or higher in high school, be reasonably mature, and demonstrate interest in meeting the high standards of instruction at the university level.

This plan would be as follows: enrollment for the first summer session after completing the high school junior year, and again the first summer session after the high school senior year; the completion of three regular academic years beginning at the close of the second summer session in the accelerated program. Third (and fourth, if needed) summer session may be taken any summer prior to the beginning of the third academic year.

## **GRADUATE PROGRAMS**

### **REQUIREMENTS FOR THE MASTER OF MUSIC DEGREE**

**General** (see page 306)

#### **Departmental**

Satisfactory performance on Department of Music entrance placement examinations in:

- (a) Theory
- (b) Music History and Literature

For a major in applied music, entrants must demonstrate proficiency equal, at least, to that of a Bachelor of Music candidate at the senior level.

**Major Areas of Concentration:** Applied Music, Theory/Composition, Music History and Literature

A minimum of 30 semester hours are required as follows: Six semester hours in each of the following: music history and literature, music theory, the area of the major, electives in music, thesis or two graduate recitals; non-thesis students must complete a satisfactory research paper to be filed with the Graduate Dean before graduation.

### **REQUIREMENTS FOR THE MASTER OF MUSIC EDUCATION DEGREE**

The Bachelor of Music Education Degree or its equivalent is the normal prerequisite to entrance into this program of study; 18 semester hours of

pre-professional education courses will have been included in the undergraduate program or will be completed as leveling work in connection with graduate study.

**General** (see page 306)

**Departmental**

**Plan I:** 30 semester hours

**Major:** six hours in music education; six hours of approved courses in applied music, theory, music history and literature; and six hours of thesis or graduate recital and three additional hours of applied music

**Minor:** 12 semester hours in one field or six hours in each of two fields acceptable to the department chairman

**Plan II:** 36 semester hours

**Major:** 24 hours consisting of nine hours in music education; nine hours chosen from music theory, applied music, and music history and literature; six hours of electives in music; and a satisfactory research paper to be filed with the Dean of Graduate Studies before graduation

**Minor:** 12 semester hours in one field or six hours in each of two fields acceptable to the department chairman

**REQUIREMENTS FOR A GRADUATE MINOR IN MUSIC**

The requirements for a graduate minor in the field of music are a minimum of 12 semester hours of approved courses in no more than three of the following areas; music education, applied music, music theory, music literature.

**ENSEMBLE**

The term "major ensemble" as used in the curricula may include one or more of the following activities, according to the primary concentration of the individual student: university band for instrumental primary students, university choir or university chorale for vocal primary students, university symphony orchestra for string primary students and orchestral instruments primary students. Keyboard and guitar students may select any of the above major ensembles.

If a music major is enrolled for nine or more hours, he must enroll in the appropriate ensemble for his primary concentration. A minimum of eight hours of major ensemble is required for graduation.

**University Band.** Required of all wind instrument majors each semester. Open to all others by consent of conductor. Three rehearsals per week and public performance required. One semester hour's credit each semester.

**Jazz Ensemble.** An ensemble which performs dance music including the standards, jazz, and current rock music. Open to all students. Rehearsals two times each week. One semester hour credit.

**University Choir.** This is a selected concert choir. Admission to membership is open to students from all departments of the university upon recom-

mentation of the director. At least four hours of rehearsal are required each week. Members must participate in all public performances. One semester hour's credit each semester.

**University Chorale.** A choral organization open to all interested students. Music of a light, popular nature will be studied and performed. Small vocal ensembles will originate from this group as well as a large performing organization which will be used in the presentation of special programs, musical shows, and other activities. One semester hour's credit each semester.

**University Symphony Orchestra.** Literature selected from various styles and composers for study and performance. One semester hour's credit each semester.

The following numbers will be inserted at the appropriate places for ensemble courses:

|                    | Lower Level | Upper Level | Graduate Level |
|--------------------|-------------|-------------|----------------|
| University Choir   | 1001        | 3001        | 5001           |
| University Chorale | 1011        | 3011        | 5011           |
| Band               | 1021        | 3021        | 5021           |
| Symphony Orchestra | 1041        | 3041        | 5041           |
| Brass Choir        | 1901        | 3901        | 5901           |
| Woodwind Ensemble  | 1911        | 3911        | 5911           |
| String Ensemble    | 1921        | 3921        | 5921           |
| Vocal Ensemble     | 1931        | 3931        | 5931           |
| Jazz Ensemble      | 1941        | 3941        | 5941           |
| Chamber Ensemble   | 1961        | 3961        | 5961           |

Any course number in ensemble will be repeated until advanced standing or degree requirements are met. A maximum of three hours of graduate ensemble credit will be allowed on any master's degree.

### APPLIED MUSIC

Courses in applied music are available for one, two, or three semester hours credit. Students majoring in applied music as candidates for the Bachelor of Music degree may enroll for no more than three semester hours in primary applied music each semester of the long term. Candidates for the Bachelor of Music Education degree may enroll for no more than two semester hours each semester of the long term. Music minors will enroll in secondary applied music. Students who are not majors or minors but who wish to enroll in private voice or guitar must concurrently enroll in at least two additional hours of non-applied music.

No credit in secondary applied music may be applied toward requirements in a concentration or major in applied music without consent of the instructor in the secondary applied area, the future adviser for the student concerned, and the department chairman.

Applied music course numbers have a first digit 1, 3, or 5, signifying lower, upper, and graduate level respectively. The final digit corresponds to the number of the semester hour credit value. The second and third digits show both the area of performance study (piano, voice, etc.) and whether the study is of a primary or secondary type, according to the table below:



| <b>Performance area:</b> | Central digits<br>for Primary<br>Applied Music | Central digits<br>for Secondary<br>Applied Music |
|--------------------------|--|--|
| <b>Voice</b>             | 20   | 21   |
| <b>Keyboard</b>          |  |  |
| Piano                    | 22   | 23   |
| Organ                    | 24   | 25   |
| <b>Percussion</b>        | 26   | 27   |
| <b>Strings</b>           |  |  |
| Violin                   | 30   | 31   |
| Viola                    | 32   | 33   |
| Violoncello              | 34   | 35   |
| String Bass              | 36   | 37   |
| Guitar                   | 38   | 39   |
| <b>Winds</b>             |  |  |
| Flute                    | 40   | 41   |
| Oboe                     | 42   | 43   |
| Clarinet                 | 44   | 45   |
| Saxophone                | 46   | 47   |
| Bassoon                  | 48   | 49   |
| <b>Brasses</b>           |  |  |
| French Horn              | 50   | 51   |
| Trumpet (Cornet)         | 52   | 53   |
| Trombone                 | 54   | 55   |
| Baritone                 | 56   | 57   |
| Tuba                     | 58   | 59   |
| <b>Conducting</b>        | 60   | 61   |

A fee of \$20.00 per semester credit hour is charged for all applied music courses involving individual instruction.

Any course number in applied music will be repeated until advanced standing or degree requirements are met.

#### 6962, 6963. **Graduate Recital**

Master of Music degree candidates will enroll in this course during the semester in which they present their Graduate Recital. Enrollment will include applied music lessons in the area of performance which will be utilized in the Graduate Recital. The number will be determined by the applied music instructor in relation to the individual degree plan of each student.

## CLASS LESSONS IN APPLIED MUSIC

### FOR UNDERGRADUATES

#### 1102. **Piano Class**

2 (2-0)

Class lessons in piano for students with no previous background. Basic technique, scales, and chord playing; emphasis upon sight reading and transposing. Two class lessons and a minimum of three hours of practice per week.

- 1112. Piano Class** 2 (2-0)  
Continuation of 1102. Sight reading and transposition. Two one hour class lessons per week.
- 1122. Voice Class** 2 (2-0)  
Fundamentals of vocal technique. Singing of appropriate song literature. Two class lessons per week with a minimum of three hours practice per week.
- 1132. Voice Class** 2 (2-0)  
Continuation of 1122. Solos, appearance in studio recitals, part singing. Two one-hour classes and three hours practice per week.
- 1142. Woodwind Instruments Class** 2 (2-0)  
Instruments comprising the woodwind section of the orchestra and band, including practical experience in playing these instruments. The principles concerning history, correct embouchures, tonguing, and phrasing are presented in class. Reed-making and reed-fixing methods are included.
- 1152. Woodwind Instruments Class** 2 (2-0)  
A continuation of 1142.
- 1162. Brass and Percussion Instruments Class** 2 (2-0)  
Instruments which make up the brass and percussion sections of the orchestra and band, including practical experience in playing these instruments. The principles concerning history, correct embouchures, tonguing and phrasing are included. Mastery of the fundamentals of playing these instruments is included to prepare for the direction of school orchestras and bands.
- 1172. Brass and Percussion Instruments Class** 2 (2-0)  
A continuation of 1162.
- 1182. String Instruments Class** 2 (2-0)  
A course designed to familiarize students with the instruments of the string orchestra; namely, violin, viola, violoncello, and bass viol. A study of bowing techniques, positions, and fundamentals which are necessary for the correct teaching of these instruments in the public schools.
- 1192. String Instruments Class** 2 (2-0)  
A continuation of 1182.

## COURSES IN MUSIC THEORY

### FOR UNDERGRADUATES

- 1503. Basic Music Theory** 3 (3-0)  
The rudiments of music for students whose backgrounds have included a limited study of the elements of music theory. Recommended as part of the music requirements for the prospective elementary teacher, secondary school teacher, or any student interested in receiving basic fundamental knowledge of music. Presentation of the fundamentals of music including an introduction to sightsinging, keyboard harmony and dictation.
- 1603. Music Theory** 3 (3-2)  
An integrated study of the elements of form, melody, rhythm and harmony of music through figured bass and melody harmonization, analysis, listening,

singing and dictation. Three one-hour lectures and two hours of laboratory each week.

**1613. Music Theory** 3 (3-2)

Prerequisite: Music Theory 1603.

A continuation of the methods involved in course 1603 to include inversion of triads, dominant sevenths, and elementary modulation. Three one-hour lectures and two hours of laboratory each week.

**1691. Composition** 1(0-2)

Individual study in the elements of musical composition. Compositional projects will be organized and completed. May be repeated for a total of five semester hours credit.

**2603. Music Theory** 3 (3-1)

Prerequisite: Music Theory 1613.

A continuation of elements and procedures involved in course 1613 with emphasis on advanced modulation, seventh chords and chromatic non-harmonic tones, and singing of melodies and dictation involving the above. Three one-hour lectures and one hour of laboratory each week.

**2613. Music Theory** 3 (3-1)

Prerequisite: Music Theory 2603.

Part writing involving altered chords and remote modulation, writing in styles other than the chorale. Advanced analysis, dictation and singing to complete the two year study of music theory. Three one-hour lectures and one hour of laboratory each week.

**3622. Counterpoint** 2 (2-0)

Prerequisite: Music Theory 2613.

A study of the elements of acceptable contrapuntal practice as exemplified in the eighteenth century fugue, followed by a stylistic survey of contrapuntal devices of the nineteenth and twentieth centuries. Emphasis upon original composition for all types of ensembles.

**3632. Form and Analysis: Monteverde to Beethoven** 2 (2-0)

Prerequisite: Music Theory 3622 or 4632.

A study of the inter-relationships of form-giving elements and resultant shapes in music from 1600 through the classical era. Structural principles of interior and exterior design related to compositional style and to goals of interpretation.

**3642. Form and Analysis: The Nineteenth Century** 2 (2-0)

Prerequisite: Music Theory 3632.

Continuation of Music Theory 3632 centering upon problems of analysis in nineteenth century music to include advanced chromaticism, extended tonality, neo-modality, non-periodic interior structures, free forms and new results in the use of sonata and fugue principles.

**3662. Orchestration** 2 (2-0)

Prerequisite: Music Theory 2613.

Techniques of arranging, scoring, and part extraction for musical ensembles of the type cultivated in the public school, designed to equip prospective music teachers of instrumental or vocal music with solutions to scoring problems involving all media of ensemble performance.

**3691. Composition**

1 (0-2)

Prerequisite: four semester hours of 1691.

Continuation of individual study in the elements of musical composition. Advanced compositional projects will be organized and completed.

**FOR UNDERGRADUATES AND GRADUATES****4632. Sixteenth Century Counterpoint**

2 (2-0)

Prerequisite: Music Theory 2613.

The analysis and composition of music which is stylistic of the sixteenth century. The rudiments of this style applied to the polyphonic vocal forms of the period, to include the motet, madrigal, and mass.

**4663. Analytical Technique**

3 (3-0)

Prerequisites: Music Theory 3622, 3662.

Orientation into analytical philosophy and methods of various outstanding theorists (Shenker, Hindemith, Edwards, McKay, etc.) and their application to discovery of interdependence of theoretical and compositional elements in tonal music of all style periods.

**4693. Selected Problems in Composition and Theory**

3 semester hours

Special projects in one of the following areas for the development of greater insights and more refined techniques in the specific area: Counterpoint, Composition, Orchestration, Contemporary Styles, Arranging, Research in Theory. May be repeated twice.

**4793. Contemporary Techniques**

3 (3-0)

Analysis and original application of such techniques as polyharmony, atonality, pandiatonicism, linear counterpoint, multirhythms, electronic influences, and other contemporary trends in composition.

**FOR GRADUATES****5603. Seminar in Music Theory**

3 (3-0)

Prerequisite: Graduate standing in music.

Survey of the historical development of various periods and styles in counterpoint and harmony with analytical study of typical compositions. Compositional exercises based upon given styles as suggested by the instructor. May be repeated once.

**5613. Problems in Music Theory**

3 semester hours

Prerequisite: Graduate standing in music education.

Field and library research culminating in papers as the solutions to problems in the history and methods of music theory. May be repeated once.

**5623. Practicum in Music Theory**

3 (3-0)

Musicianship skills and theoretical concepts separated, strengthened, and realigned toward a higher level of musical understanding and perceptivity. Explicitly designed for teachers and music educators whose professional vocabularies and kineticaural skills must constantly broaden and increase. Practical problems in aural and score analysis, music reading, formal structures, instrumentations, compositional styles and devices, sound media and acoustics.

**6603. Composition in Large Forms**

3 (3-0)

Free composition in larger dimensions for chamber groups, chorus, orchestra, symphonic wind ensemble or electronic media. Performance or reading of at least one score required. May be repeated once.

**6663. Workshop in Experimental Music**

3 (3-0)

All directions of current musical practices examined and applied to sonic art processes through ensemble improvisation. Discovery and use of fresh sound media by individual and group research. Involvement of electronic techniques and mixed media. Laboratory solutions to scoring and production problems as they evolve. May be repeated once.

## **COURSES IN HISTORY AND LITERATURE OF MUSIC**

### **FOR UNDERGRADUATES**

**1033. The Appreciation of Music**

3 (3-0)

For non-music majors.

The salient periods in western civilization and the relation of music to the other arts, to the social and historical background, and the general style concept of each period. An investigation of the music of individual composers within the context of their time.

**1702. Music Literature**

2 (2-0)

For majors in any field. A survey of instrumental and vocal forms to include symphony, opera, concerto and art song from 18th century Classicism to 19th century Romanticism. Attention to the instruments as producing means; sources of imagery in musical imagery from Beethoven to Brahms.

**1712. Music Literature**

2 (2-0)

Prerequisite: Music Literature 1702 or consent of instructor.

For majors in any field. Insights into structural and functional aspects of musical masterpieces from the Middle Ages through the Baroque, and from Impressionism into the 20th century. The significance of contributions of representative composers such as Josquin des Pres, Palestrina, Bach, Stravinsky, Schoenberg, Ives and Bartok.

**3713. Piano Literature**

3 (3-0)

Prerequisite: Eight hours of piano.

Survey of literature for the piano from the age of Bach to the present. Live and recorded performances. Discussion of historical and aesthetic characteristics of piano music from all of the major style periods. Techniques, musicianship, and stylistic aspects of interpretation.

### **FOR UNDERGRADUATES AND GRADUATES**

**4703. History of Music (Antiquity to 1750 A.D.)**

3 (3-0)

Prerequisite: Music Literature 1712 or consent of instructor.

Comprehensive study of the development of music, including reflections of, and influence upon, the related arts. Recorded illustrations of music in its various periods, including the works of Palestrina, Bach and Handel, with special consideration of the forms used by these masters.



**4713. History of Music (1750 to the present)** 3 (3-0)

Prerequisite: Music Literature 1712 or consent of instructor.

Classicism compared with romanticism, compositions of the masters illustrating the spirit of the periods in which they lived. Nationalistic trends, late Romanticism, Impressionism and the modern schools together with composers and compositions representative of each.

**4723. Symphonic Literature** 3 (3-0)

Prerequisite: Music History 4713 or consent of instructor.

Consideration of the larger orchestra and its basic repertory through recordings, score reading, lectures and detailed analysis in areas of primary importance. Survey of the entire literature through relating all areas to those chosen for concentrated study.

**4733. The Art Song** 3 (3-0)

Prerequisite: Junior or senior level voice standing.

A survey of the art song from 17th century Italy to the present, with emphasis on German Lied, French art song, and English and American song of the 19th and 20th centuries. Particular attention will be given to style, interpretation, and diction.

**4763. Problems in Music Literature** 3 semester hours

Directed study on special problems in music literature and music history. Students may also take directed study in the primary applied area of concentration. May be repeated for credit.

**4863. Chamber Music** 3 (3-0)

A study of small ensembles, designed to give the student actual performance experience along with a study of the literature.

**FOR GRADUATES****5723. Symphonic Literature** 3 (3-0)

Consideration of the larger orchestra and its basic repertory through recordings, score reading, lectures and detailed analysis in areas of primary importance. Survey of the entire literature through relating all areas to those chosen for concentrated study.

**5733. The Art Song** 3 (3-0)

Prerequisite: Graduate standing in music.

A survey of the art song from 17th century Italy to the present, with emphasis on German Lied, French art song, and English and American song of the 19th and 20th centuries. Particular attention will be given to style, interpretation, and diction.

**5743. Introduction to Musicology** 3 (3-0)

A study of elementary principles, basic concepts and source materials in the fields of acoustics, physiology and psychology of music, aesthetics, comparative musicology, and the philosophy and sources of music history.

**5753. History of Musical Instruments** 3 (3-0)

The evolution of the various families of musical instruments from the earliest times to the present.

**5763. Selected Problems in Music Literature** 3 semester hours

Directed study on special problems in music literature and music history. Individual research projects. May be repeated twice for credit.

**6863. Seminar in Music Literature** 3 (3-0)

Music of the Pre-Baroque Era, Baroque Era, Classic Era, Romantic Era, Twentieth Century.

An advanced survey of the various eras of music history. May be taken up to five times with different subject-content.

**6933. Music in Society** 3 (3-0)

A study of the societal influence of musical thought and practice, both in historical perspective and in comparative study of contemporary societies. The relation between school and community music. The role of musical organizations, institutions, and agencies on American life.

## **COURSES IN MUSIC EDUCATION**

### **FOR UNDERGRADUATES**

**3801. Instrument Repair** 1 (1-1)

Designed to familiarize students with the fundamentals of instrument repair. Includes care and maintenance, inspections, standard minor repairs, and emergency repairs.

**3823. Piano Pedagogy** 3 (3-2)

Methods of teaching fundamentals to beginning piano students. Two hours of practice teaching per week required.

**3833. Piano Pedagogy** 3 (3-2)

Prerequisite: Music Education 3823.

Methods of developing the musicianship, technique, and style of the young piano student through piano literature from the Baroque, Classic, Romantic, Impressionistic, and Contemporary periods. Two hours of practice teaching per week required.

**3843. Organ Methods and Materials** 3 (3-2)

Prerequisite: Organ 1253.

Survey of organ literature for teaching purposes, selected from the pre-classic and classic periods. Organ instruction of various schools of performance and interpretation correlated with applicable materials. Two hours of practice teaching per week required.

**3853. Organ Methods and Materials** 3 (3-2)

Prerequisite: Music Education 3843.

Continued study of teaching techniques, exemplified through use of romantic and modern literature. Two hours of practice teaching per week required.

**3862. Basic Improvisation** 2 (2-0)

Analysis of melodic, harmonic and rhythmic aspects of jazz. Teaches basic musical components of improvising including reading of chord symbols and applying appropriate scales to chords. Scales used include major, "blues," and dorian mode.

**3863. String Pedagogy** 3 (3-2)

Prerequisite: Junior level in strings or consent of the instructor.

A survey of techniques, practices and materials. Presentation of group and individual instruction; an approach to teaching problems, tone production, musical styles and interpretation for various age levels; actual teaching experience under faculty supervision.

**3873. String Pedagogy** 3 (3-2)

Prerequisite: Music Education 3863.

Continuance of teaching problems established in the prerequisite course; actual teaching experience under faculty supervision required.

**FOR UNDERGRADUATES AND GRADUATES****4813. Elementary School Music Methods** 3 (3-0)

Prerequisite: Basic music for classroom teachers or consent of instructor.

Methods of teaching music, grades K through 6. Development of music reading and part singing skills, creative work, rhythmic experience. Acquaintance with materials to be used with elementary school children in music training.

**4823. Secondary School Music Methods** 3 (3-0)

Prerequisite: Junior standing in music.

A course in preparation of secondary vocal and instrumental student teaching. A study and evaluation of public school music procedures and basic concepts of student teaching with emphasis on methods and materials for music programs.

**4833. Vocal Pedagogy** 3 (3-0)

Prerequisite: Senior level voice standing.

A course in the principles and techniques of teaching applied vocal music; methods, materials, and procedures for private and group instruction; history of teaching and study of leading vocal methods; observation of private and class instruction with students teaching.

**4843. Choral Conducting** 3 (3-1)

Prerequisite: Music Theory 1613.

For music majors and minors. Others may register with the consent of the instructor. Emphasis on basic conducting techniques, choral techniques, style, and interpretation. Methods and materials for school and church programs. Three hours of lecture and one hour of laboratory per week.

**4853. Instrumental Conducting** 3 (3-1)

Prerequisite: Music Theory 1613, Conducting 4843.

The technique and practice of conducting band and orchestra music, with intensive study of score reading, baton technique, and interpretation. Three one-hour lectures and one hour of laboratory per week.

**4873. School Music Workshop** 3 (3-2)

Prerequisite: Experience in basic music and consent of the instructor.

A survey of literature and materials used in various levels of school music. Practical acquaintance with basic instruments used in school music courses and ensemble. Three hours of lecture and two hours of laboratory per week. Elementary or secondary education credit.

**FOR GRADUATES****5803. Principles of Music Education 3 (3-0)**

Prerequisite: Graduate standing in music education.

Philosophy of music education as determined in a comparative study of music methods in various nations. Analysis of psychological factors in musical talent and achievement.

**5823. Instrumental Music Workshop 3 (3-0)**

Prerequisite: Graduate standing in music education.

A survey of teaching techniques, current trends, and use of literature and materials in various levels of school instrumental music courses and ensembles.

**5833. Vocal Pedagogy 3 (3-0)**

Prerequisite: Graduate standing in music education.

A course in the principles and techniques of teaching applied vocal music; methods, materials, and procedures for private and group instruction; history of teaching and study of leading vocal methods; observation of private and class instruction with students teaching.

**5873. School Music Workshop 3 (3-2)**

Prerequisite: Graduate standing in music education.

A survey of literature and materials used in various levels of school music. Practical acquaintance with basic instruments used in school music courses and ensemble. Three hours of lecture and two hours of laboratory per week. Elementary or secondary education credit.

**5913. Psychology of Music 3 (3-0)**

Prerequisite: Graduate standing in music education, educational or general psychology.

A study of the acoustical and psychological aspects of music with emphasis upon problems of perception, experimental aesthetics, musical function, measurement, and diagnosis of musical ability. The related literature of experimental investigation will be reviewed.

**5923. The Organization of School Music 3 (3-0)**

A study of music education with reference to its historical development and to educational psychology. Consideration of recent trends and the place of music in the school curriculum. Criteria for the evaluation of activities, courses, materials, and methods in well-balanced program of music.

**5933. Advanced Elementary Music Education 3 (3-0)**

An investigation of current principles and practices in elementary school music; a study of the most recent methods and materials and applications of these to different school systems. Designed for the music specialist.

**6853. Problems in Music Education 3 semester hours**

Research and organization of material to meet specific needs and problems of individual students. Outside reading and papers as designated by the instructor. May be repeated once.

**6873. Seminar in Music Education 3 (3-0)**

Prerequisite: Graduate standing in music education.

Research in chosen fields of music education including background reading and paper on the philosophy and teaching of music. Comparison of

various approaches and methods used in European and American schools. May be repeated once.

**6953. The Influence of Music on Behavior**

3 (3-0)

Prerequisites: Biology or physiology, psychology, and ability in applied music comparable to that required of candidates for the Bachelor of Music Education degree.

A study of the various physiological effects of music. The place of functional music in music education. Investigation of effective media and musical patterns. The relation of music to health and industry.

6983, 6993. **Thesis**

6 semester hours

## DEPARTMENT OF POLITICAL SCIENCE

**Leo M. Sabota, Chairman** (100 Dillard Building)

Professor: Sabota

Associate Professor: Martin

Assistant Professors: Alexander, Flavin,  
Murphy, Paik, Preda

The requirements for the degree of Bachelor of Arts with a major in political science are as follows:

**General** (see page 30)

**Departmental**

**Major** (30 semester hours)

Political Science 1333, 1433 and 24 additional hours, of which 15 must be advanced, as approved by the department

The minor field selected must be acceptable to the chairmen of major and minor departments

**REQUIREMENTS FOR A MINOR IN POLITICAL SCIENCE** (21 semester hours)

Political Science 1333, 1433 and 15 additional semester hours, of which nine must be advanced

The requirements for the degree of Bachelor of Science in Education with a first or a second teaching field in political science may be found on page 31.

**GRADUATE PROGRAMS**

The requirements for the degree of Master of Arts with a major in political science are as follows:

**General** (see page 306)

**Departmental**



**Major**

Option 1: 30 semester hours of approved courses including Political Science 6983 and 6993 or a minimum of 18 semester hours of approved courses including Political Science 6983 and 6993 if a minor field is selected.

Option 2: 36 semester hours of approved courses or 24 semester hours with an approved minor and a substantial research paper meeting guidelines established by the department and the graduate council. An emphasis in Public Administration can be pursued with departmental approval.

Option 3: Public Administration emphasis. 36 semester hours of approved courses including 5923, 5943, 5953, 6183 and 6193

**Minor:** A minimum of 12 semester hours of approved courses in the field of political science with the exception that education majors selecting a divided minor may be approved for a nine-hour minor by the department chairman

The requirements for the degree of Master of Education with a minor in political science may be found on pages 140.

**COURSES IN POLITICAL SCIENCE****FOR UNDERGRADUATES**

**1333. American Government** (formerly 2333) 3 (3-0)

This course, together with Political Science 1433, fulfills the legislative requirement of six semester hours of American government. A study of the American governmental system—national and state. Special attention given to Texas. The American experiment in federalism and democracy; origin and development of the United States Constitution; federal-state relations; civil liberties; the individual as a citizen; political parties.

**1433. American Government** (formerly 2433) 3 (3-0)

Legislative, executive, and judicial functions in the United States and Texas governments; foreign policy; the conduct of foreign relations; national defense; government and the economy; governmental services.

**2523. Foundations of Government and Politics** 3 (3-0)

Study of major concepts, theories, and principles of government and politics. Designed to provide a basic understanding of the institutions and processes of government.

**FOR UNDERGRADUATES AND GRADUATES**

Prerequisites for taking 3000-4000 courses for graduate credit: 15 hours in political science or consent of chairman

**3233. American Political Parties and Pressure Groups** 3 (3-0)

Prerequisite: Six hours of political science.

The American political party system and pressure groups, with particular attention to their development, present structures, and roles in the American political system.

- 3313. Introduction to Political Theory** 3 (3-0)  
Prerequisite: Six hours of political science.  
A basic survey and evaluation of the major classical and contemporary theories of politics. Special emphasis on the influence of classical political philosophy on modern democratic theory.
- 3443. Municipal Government and Metropolitan Problems** 3 (3-0)  
Prerequisite: Six hours of political science.  
Study of the structure, functions, and politics of local government with special emphasis on the problems of governing metropolitan areas.
- 3533. Government and Politics of Western Europe** 3 (3-0)  
Prerequisite: Six hours of political science.  
A comparative study of modern political institutions and processes, with particular attention to England, France and West Germany.
- 3553. Totalitarian Governments** 3 (3-0)  
Prerequisite: Six hours of political science.  
A comparative study of modern political institutions and processes, with particular attention to totalitarian and authoritarian political systems.
- 3563. Government and Politics of the Middle East** 3 (3-0)  
Prerequisite: Six hours of political science.  
A comparative study of the political institutions and processes with particular attention to Middle East nation states.
- 3633. The Development of American Foreign Relations** 3 (3-0)  
Prerequisite: Six hours of political science.  
Survey of American foreign relations from the Washington administration to the present.
- 3653. International Relations** 3 (3-0)  
Prerequisite: Six hours of political science.  
A study of the nation-state system; critical analysis of principles, problems, and factors involved in the foreign policies and relations of the various states.
- 3733. Political Behavior** 3 (3-0)  
Prerequisite: Six hours of political science.  
An introduction to the approaches and methods of political analysis. Includes basic procedures of survey research, quantitative analysis and research design development.
- 3843. The Presidency** 3 (3-0)  
Prerequisite: Six hours of political science.  
A study of the Presidency and the executive branch in the American system.
- 3933. The Judicial System and Process** 3 (3-0)  
Prerequisite: Six hours of political science.  
A study of the American judicial system and process at the local, state and national levels. Topics include judicial selection, judicial behavior and judicial policy-making.
- 4013. Legislation** 3 (3-0)  
Prerequisite: Six hours of political science.  
A study of the role of Congress and the state legislature in the American System

- 4023. American Political Thought** 3 (3-0)  
Prerequisite: Six hours of political science.  
Study of American political thinking from colonial times to the present with emphasis on political thought as it relates to institutions of the United States.
- 4133. Public Administration** 3 (3-0)  
Prerequisite: Six hours of political science.  
Examination of the basic principles involved in the administration and execution of public policy. Includes such topics as organizational theory, personnel management, budgetary procedures, and the politics of administration.
- 4153. Public Administration Processes and Practice** 3 (3-0)  
Prerequisite: Political Science 4133 or consent of instructor.  
Study of the application of public administration concepts and theories in actual practice. Includes research topics and internship projects with emphasis on city and regional administration.
- 4163. American Federalism** 3 (3-0)  
Prerequisite: Six hours of political science.  
An analysis of the relationships among federal, state and local governments in the United States with emphasis on the administrative aspects of the expanding area of intergovernmental cooperation.
- 4223. Criminal Procedure** 3 (3-0)  
For course description, see listing under Criminal Justice.
- 4233. American Constitutional Law** 3 (3-0)  
Prerequisite: Six hours of political science.  
The development of the Constitution through the interpretations of the Supreme Court.
- 4243. American Constitutional Law** 3 (3-0)  
Prerequisite: Six hours of political science.  
A continuation of Political Science 4233. Additional cases in constitutional development. A study of civil rights and civil liberties.
- 4253. Comparative Criminal Justice Systems** 3 (3-0)  
(formerly Criminal Justice 4233)  
For course description, see listing under Criminal Justice.
- 4333. International Law** 3 (3-0)  
Prerequisite: Six hours of political science.  
The role of the law of nations in world politics, with emphasis on the history, theories, sources, and enforcement of international law.
- 4553. Twentieth Century Political Thought** 3 (3-0)  
Prerequisite: Six hours of political science.  
An analysis of recent trends in political thought.
- 4733. Government and Politics of the Far East** 3 (3-0)  
Prerequisite: Six hours of political science.  
A comparative study of political institutions and processes with particular attention to Japan, China, and Korea.

- 4743. Government and Politics of Southeast Asia** 3 (3-0)  
Prerequisite: Six hours of political science.  
A comparative study of political institutions and processes of nation-states in Southeast Asia.
- 4753. Government and Politics of Emerging Nations** 3 (3-0)  
Prerequisite: Six hours of political science.  
A comparative study of political institutions and processes in the emerging nations.
- 4853. Contemporary American Foreign Policy** 3 (3-0)  
Prerequisite: Six hours of political science.  
Study of policies and problems in United States foreign relations since World War II.
- 4903. Problems in Government and Politics** 3 semester hours  
Prerequisites: Six hours of political science and consent of the department chairman. May be repeated for credit when the titles vary.  
Supervised reading and research in the field of government and politics.
- 4923. Senior Seminar in Government and Politics** 3 (3-0)  
Prerequisites: Six advanced hours of political science and consent of instructor.  
Study and research of problems in government and political science. May be repeated for credit when titles vary.
- 4933. Issues in World Politics** 3 (3-0)  
Prerequisite: Six hours of political science.  
Analyses of contemporary problems in international politics.

#### FOR GRADUATES

- 5003. Research in Political Science** 3 (3-0)  
Prerequisite: 15 hours in political science or consent of the chairman.  
Completion of a project of directed reading and research. May be repeated for credit.
- 5011. Teaching College Political Science** 1 (1-0)  
Prerequisite: Graduate standing in political science.  
An overview of problems and practices of teaching political science. May be repeated once for credit.
- 5013. Scope and Methods of Political Science** 3 (3-0)  
Prerequisite: 15 hours in political science or consent of the chairman.  
Intensive examination of bibliography, scope, methods, and concepts of political science. Includes study of the philosophy of social science and quantitative analysis through applied research topics.
- 5023. American Political Thought** 3 (3-0)  
Prerequisite: 15 hours of political science or consent of the chairman.  
Study of American political thinking from colonial times to the present with emphasis on political thought as it relates to institutions of the United States.

- 5043. Legislation** 3 (3-0)  
 Prerequisite: 15 hours of political science or consent of the chairman.  
 A study of the role of Congress in the American system.
- 5133. Public Administration** 3 (3-0)  
 Prerequisite: 15 hours of political science or consent of the chairman.  
 Examination of the basic principles involved in the administration and execution of public policy. Includes such topics as organizational theory, personnel management, budgetary procedures, and the politics of administration.
- 5243. American Constitutional Law** 3 (3-0)  
 Prerequisite: 15 hours of political science or consent of the chairman.  
 A continuation of Political Science 4233. Additional cases in constitutional development. A study of civil rights and civil liberties.
- 5913. Issues in Government** 3 (3-0)  
 Prerequisite: 15 hours in political science or consent of the chairman.\*  
 Reading and discussion of significant problems in government.
- 5923. Organization and Administration Theory** 3 (3-0)  
 Analysis of theory and practice of administration in government with emphasis on decision-making, leadership, planning, communications, and control in public organizations.
- 5933. Public Personnel Administration** 3 (3-0)  
 An intensive examination of personnel administration in the public service including such topics as recruitment procedures, classification systems, promotion policies, and collective bargaining in a public merit system.
- 5943. Public Budgeting and Fiscal Administration** 3 (3-0)  
 A study of the process of developing a public budget both as an accounting device and for public policy planning. Particular attention given to the political aspects of budgeting and innovation in zero-base and planning-programing budgeting.
- 5953. Administrative Law** 3 (3-0)  
 A study of the law of public office and public officers including powers of administrative authorities, scope and limit of administrative powers and remedies against administrative action.
- 6013. Seminar in American Government** 3 (3-0)  
 Prerequisite: 15 hours in political science or consent of the chairman.\*
- 6023. Seminar in Comparative Government** 3 (3-0)  
 Prerequisite: 15 hours in political science or consent of the chairman.\*
- 6033. Seminar in Political Theory** 3 (3-0)  
 Prerequisite: 15 hours in political science or consent of the chairman.\*
- 6043. Seminar in International Relations** 3 (3-0)  
 Prerequisite: 15 hours in political science or consent of the chairman.\*
- 6063. Seminar in Public Law** 3 (3-0)  
 Prerequisite: 15 hours in political science or consent of the chairman.\*
- 6983, 6993. Thesis** 6 semester hours

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\*May be repeated for credit when topics vary.



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## CRIMINAL JUSTICE PROGRAM

**Jim R. Alexander, Coordinator** (107 Dillard Building)

Professor: Sabota

Assistant Professors: Alexander, Flavin, Grant, Paik

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The requirements for a Bachelor of Science in Criminal Justice degree are as follows:

**General** (see General Degree Requirements)

**Departmental**

**Major** (30 semester hours)

Criminal Justice 1113\*, 2133 or 4133, 2213, 3213, 4213, and 15 hours to total at least 15 advanced hours

**Minor** to be selected in a field acceptable to the chairman of the major and minor departments.

**Additional**

Six hours of mathematics exclusive of 1033 and 1043

(Statistics 3573 may be taken to satisfy three hours of the mathematics requirement)

Six hours from the School of Business Administration

Nine hours from Department of Psychology, Sociology and Anthropology

Six to eight hours of laboratory science

Three hours of speech

Six hours in one foreign language (or six additional hours of laboratory science). Spanish 1103 and 1123 fulfill requirements

**Electives**

Sufficient additional hours to total a minimum of 124.

**REQUIREMENTS FOR A MINOR IN CRIMINAL JUSTICE** (21 semester hours)

Criminal Justice 1113\*, 2133 or 4133, 2213, 4213, and six additional hours to total at least nine advanced hours.

## COURSES IN CRIMINAL JUSTICE

**1113. Introduction to Law Enforcement and Criminal Justice** 3 (3-0)

History, development and philosophy of law enforcement; introduction to the agencies involved in the administration of criminal justice. Career orientation.

**2123. Police-Community Relations** 3 (3-0)

Analysis of intergroup relations between the police and citizenry with emphasis upon the importance of each understanding the problems and perspectives of the other.

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\*Students with previous law enforcement experience may be permitted to substitute another criminal justice course with department approval.

**2133. Introduction to Police Organization and Management** 3 (3-0)

A survey of the principles of organization and management as applied to law enforcement agencies; introduction to concepts of organizational behavior and personnel management.

**2143. Introduction to Corrections** 3 (3-0)

A survey of the field of corrections and its historical development with emphasis upon institutional treatment, probation and parole.

**2213. Legal Aspects of Law Enforcement** 3 (3-0)

History and philosophy of modern criminal law, including the structure, definition and application of statutes and leading case law; the elements of crimes and penalties; general provisions of the Texas Penal Code.

**2223. Legal Aspects of Corrections** 3 (3-0)

Substantive law relating to corrections with special attention on the laws of Texas. Emphasis on application of statutes and cases to basic right of convicted.

**2913. Fundamentals of Criminal Investigation** 3 (3-0)

Introduction to criminal investigation. Consideration of conduct at the crime scene, including the recognition of, collection and preservation of the various types of evidence. Fundamentals of the interview, interrogation, the use of informants and surveillance techniques. Particular attention to the identification of the various elements of specific offenses.

**3213. Research Methods in Criminal Justice** 3 (3-0)

Introduction to legal and social science research methods with emphasis on practical application in the administration of criminal justice.

**3333. Evidence and Proof** 3 (3-0)

Survey of the principles of evidence and proof: relevance, hearsay, impeachment and cross examination, self incrimination, governmental privileges and protection of right to privacy. Study and treatment of each area is limited to those aspects most closely connected with law enforcement.

**3443. Municipal Government and Metropolitan Problems** 3 (3-0)

For course description, see listing under Political Science.

**3733. Juvenile Delinquency** 3 (3-0)

For course description, see Sociology course listing.

**3933. The Judicial System and Process** 3 (3-0)

For course description, see listing under Political Science.

**4133. Public Administration** 3 (3-0)

For course description, see listing under Political Science.

**4153. Public Administration Process and Practice** 3 (3-0)

For course description, see listing under Political Science.

**4173. Administrative Practice in Criminal Justice Agencies** 3 (3-0)

Prerequisite: Criminal Justice 4133.

Study and application of administrative concepts and theories in criminal justice agencies in actual practice. Includes research topics and internship projects with emphasis on municipal and regional agencies.

**4213. Criminal Law**

3 (3-0)

Examination of the purpose and goals of criminal law and a study of the historic development of its basic concepts. Study of the substantive criminal law with emphasis on the Texas Penal Code. Analysis of recent court interpretations as well as a comparison of federal and model codes as they relate to the penal law of the State of Texas.

**4223. Criminal Procedure**

3 (3-0)

A study of the procedural laws of the State of Texas with particular attention to the provisions of the Code of Criminal Procedure. Study and analysis of constitutional and other limitations, court interpretation and recent Federal and State statutory provisions as they relate to criminal procedure.

**4243. American Constitutional Law**

3 (3-0)

For course description, see listing under Political Science.

**4253. Comparative Criminal Justice Systems** (formerly 4233)

3 (3-0)

A comparative study of criminal justice systems, with particular attention to their development, present structures and their influence on American criminal justice. May be repeated as topics vary.

**4773. Internship in Criminal Justice**

3 (3-0)

Field experience in selected criminal justice agencies. May be repeated for credit up to six hours.

**4903. Problems in Criminal Justice**

3 semester hours

Prerequisites: 12 hours of criminal justice and approval of department chairman.

Supervised reading in the field of criminal justice. May be repeated for credit when topics vary.

**4913. Issues in Criminal Justice**

3 (3-0)

Prerequisite: 12 hours of criminal justice or consent of instructor.

Description and analysis of crucial issues relating to selected structures and processes in the criminal justice system; review and analysis of recent studies concerning criminal justice. May be repeated for credit when topics vary.

**4923. Seminar in Criminal Justice**

3 (3-0)

Prerequisite: 12 hours in criminal justice or consent of instructor.

Study and research of specific issues in law enforcement. May be repeated for credit when topics vary.

**DEPARTMENT OF PSYCHOLOGY, SOCIOLOGY,  
AND ANTHROPOLOGY****Neil B. Holliman, Chairman** (122 O'Donohoe Building)

Professor: Holliman

Assistant Professors: Clark, Colee, Hensley,  
Murphy, Williams, Wilson

Instructors: Grooms, Mione, Southard

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**PSYCHOLOGY PROGRAM**

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A major in psychology has the option of obtaining a Bachelor of Arts or a Bachelor of Science degree. Requirements for the B.A. and B.S. degrees are on page 28. The psychology major obtaining a B.S. degree is required to minor in one of the areas included in the School of Sciences and Mathematics. The area to be selected with the approval of the department adviser.

Department requirements remain the same for either degree and are as follows:

**Major**

Psychology 1103, 2203, 3003, 3313 or an equivalent introductory course in statistics, 4303 or 4703; and 15 semester hours of which 9 must be advanced, selected with approval of department adviser

**Minor** to be selected in a field acceptable to the chairmen of the major and minor departments

**REQUIREMENTS FOR A MINOR IN PSYCHOLOGY** (18 semester hours)

Psychology 1103 and 2203 plus 12 additional semester hours of which nine must be advanced, selected with the consent of the department adviser

**GRADUATE PROGRAM**

The requirements for a degree of Master of Arts with a major in the field of psychology are as follows:

**General** (see page 306)

**Departmental****Major**

Option 1: non-thesis program with emphasis on applied clinical training consisting of 36 hours of approved course work plus six course hours of supervised practicum for a total of 42 hours

Option 2: thesis program consisting of 30 semester hours of approved course work plus a thesis of six course hours credit for a total of 36 hours

All graduate students in the department are required to complete a basic core of 21 credit hours of course work consisting of Psychology 5103 through

5163 or their equivalent. Other course work is to be selected in consultation with the graduate adviser or department chairman.

### Minor

A minimum of 15 credit hours of approved course work

## COURSES IN PSYCHOLOGY

### 1103. **General Psychology** (formerly 2103) 3 (3-0)

Introduction and survey of the basic concepts of psychology as a science of behavior. Includes research and current information in the areas of learning, motivation, emotion, personality, and abnormal behavior.

### 2203. **Human Behavior** 3 (3-0)

Prerequisite: Psychology 1103.

An experimental approach to give the student more depth in areas concerned with human behavior. Topics include the senses and perception, psychological tests, intelligence, industrial, attitude measurement and change, group and social processes.

### 3003. **Learning** 3 (3-0)

Prerequisites: Psychology 1103, 2203.

Scientific research in the learning processes; the method and techniques in collecting and establishing data on learning; and the application of learning procedures with normal and abnormal behavior.

### 3103. **Physiological Psychology** 3 (3-0)

Prerequisites: Psychology 1103, 2203.

The psychological aspects of neural anatomy and physiology, tonus, neuro-muscular set, physiological integration, and the neural basis for behavior.

### 3233. **Child Psychology** 3 (3-0)

Prerequisites: Psychology 1103, 2203.

Origin and principles of behavior in infancy and childhood; the development of normal and abnormal behavior to include physiological and psychological research methods and techniques in child behavior.

### 3313. **Psychological Statistics** (formerly 2313) 3 (3-0)

Prerequisite: Psychology 1103.

An introduction to descriptive and inferential statistics with emphasis on sampling, measures of central tendency, dispersion, linear correlation, and parametric tests of significance.

### 3403. **Social Psychology** 3 (3-0)

Prerequisites: Psychology 1103, 2203. May also be taken for sociology credit.

Interdisciplinary experimental research linking psychology and sociology, which deals with the influence of groups and social situations on the individual. Includes as areas of study: social and person perception, intragroup and intergroup relations, attitudes and attitude change, conformity, prejudice, leadership and power structures.

### 3503. **Comparative Psychology** 3 (3-0)

Prerequisites: Psychology 1103, 2203.

The evolution of behavior in the animal series from the unicellular animal



to man. Emphasis is on interspecies comparison of the behavioral aspects in terms of evolutionary antecedents.

**3603. Abnormal Psychology** 3 (3-0)

Prerequisites: Psychology 1103, 2203.

The history of mental illness; the problems of describing and classifying normal and deviant behavior. Current research knowledge concerning the background, development, symptoms, dynamics, and prognosis of the personality disorders, drug addiction, neurosis and psychosis.

**3703. Motivation and Emotion** 3 (3-0)

Prerequisites: Psychology 1103, 2203.

An examination of the contribution of the motivational concepts such as need, drive, and reinforcement to the understanding of human behavior. The emotional effects of the application of reward and punishment. Current research concerning measurement and identification of various emotions, interaction patterns and their expression in behavior.

**3803. Perception** 3 (3-0)

Prerequisites: Psychology 1103, 2203.

The study of psychological reaction to and interpretation of sensory information from internal and external receptors. Includes vision, hearing, pain, attention processes, altered states of awareness, the influence of culture, drugs, learning, and motivation on sensory processes.

**3913. Personal Relations and Interactions** 3 (3-0)

Prerequisites: Psychology 1103, 2203 or 3233, and junior standing or consent of the instructor.

Focus on individual interaction patterns, cultural and class differences in interaction and life styles, stages in personal and psychosexual development, techniques and levels of personal contact, intimacy, and adjustment.

**4103. Clinical Psychology** 3 (3-0)

Prerequisite: 12 hours of psychology including 3603 or consent of department chairman.

Data on the effectiveness of clinical methods; a survey of experimental techniques currently being evaluated; an introduction to the problem of diagnosis and treatment.

**4113. Industrial Psychology** 3 (3-0)

Prerequisites: Psychology 1103, 2203.

Psychological principles as applied to the selection of workmen, the employee-employer relationship, production efficiency, advertising, and market research.

**4203. Psychology of Personality** 3 (3-0)

Prerequisites: Psychology 1103, 2203.

Current data on the basic concepts of personality development and assessment.

**4303. History and Systems** 3 (3-0)

Prerequisites: Psychology 1103, 2203.

A survey of the important concepts, ideas and schools in the development of psychology, some major contributors and their approaches in the study of psychology, international perspectives, and current issues.

**4401-4402-4403. Special Projects** 1-3 semester hours

Prerequisites: Psychology 1103 and consent of department chairman.

Intensive study for the advanced student within a special area. May be repeated for credit for a different area of study.

**4503. Psychological Tests and Evaluation** 3 (3-0)

Prerequisites: Psychology 1103, 2203.

The development, scope, purposes, and uses of psychological evaluations for normal and abnormal behavior.

**4703. Experimental Psychology** 3 (3-0)

Prerequisites: Psychology 1103, 2203, 3313

The theory and application of scientific methodology in psychological research.

**FOR GRADUATES****5103. Processes and Theories of Learning** 3 (3-0)

Prerequisite: Psychology 3003 or consent of the instructor.

A selective examination of modern theory and research related to the learning process. Included are language development, hypothesis testing, transfer, skill acquisition and performance, and the design of learning systems.

**5113. Research and Statistical Analysis** 3 (3-0)

Prerequisite: Undergraduate statistics or consent of the instructor.

Fundamentals of analysis of variance and non-parametric statistical techniques with an emphasis on research design and on the application of statistics to behavioral science.

**5123. Systems and Theories** 3 (3-0)

Prerequisite: Consent of the instructor.

A survey and evaluation of present and past schools of psychology with an emphasis on the philosophy of science, the development and construction of theoretical models, and the major theoretical contributions of the 20th century.

**5133. Techniques of Assessment I** 3 (3-0)

Prerequisite: Psychology 4503 or consent of the instructor.

Theory and practice in the use of assessment procedures. Emphasis is upon the selection and interpretation of instruments measuring intelligence, interests and special aptitudes.

**5143. Current Topics** 3 (3-0)

Prerequisite: Consent of the instructor.

A seminar concerned with the field of psychology as it relates to current social, legal and medical areas of study. Emphasis is placed on the role of the psychologists in applied social, governmental and community agencies.

**5153. Theories of Personality** 3 (3-0)

Prerequisite: Consent of the instructor.

Discussion and evaluation of the major theories of personality, types and quality of research, and the implications and contributions as a basis for the understanding of the dynamics of human behavior.

**5163. Psychopathology** 3 (3-0)

Prerequisite: Consent of the instructor.

A study of the behavior, principles, dynamics, theories and research in the different areas of psychopathology.

**5173. Advanced Social Psychology** 3 (3-0)

Prerequisite: Consent of the instructor.

Critical examinations of the research and theories of attitude change, interpersonal behavior, small groups, leadership, conformity, power, aggression and social organization.

**5183. Advanced Child Psychology** 3 (3-0)

Prerequisite: Consent of the instructor.

A survey of methods, findings, and theories involving the psychological functioning of children. Special emphasis is given to the topics of learning, cognitive processes, and social interactions.

**5193. Special Problems** 3 (3-0)

Prerequisite: Consent of the department chairman.

Intensive study in a specialized area of interest.

**6001. Teaching Seminar** 1 (1-0)

Prerequisite: Consent of the chairman.

Required for all Teaching Assistants during first semester of residence.

A review and discussion of college teaching techniques, common problems encountered in teaching, and the theory and practice of evaluating students.

**6103. Personnel Selection and Evaluation** 3 (3-0)

Prerequisite: Undergraduate statistics or consent of the instructor.

Theory of test construction, validation procedures, and reliability as specifically related to personnel and industrial applications. Special attention is placed on current tests in use, development of selection programs, and ethical and legal requirements of personnel selection.

**6113. Individual Counseling and Psychotherapy** 3 (3-0)

Prerequisites: Psychology 5163 and consent of the instructor.

Study and discussion of the major theories and techniques of dyadic psychotherapy, the application of these techniques to the change of behavior, and practice, in the analysis of cases for therapeutic intervention.

**6123. Family Interaction and Group Processes** 3 (3-0)

Prerequisite: Consent of the instructor.

A survey of the history, current practices, and theories of family and group therapy including experience in the application and evaluation of basic techniques.

**6133. Cognitive and Symbolic Processes** 3 (3-0)

Prerequisite: Psychology 3003 or consent of the instructor.

A review of the theories and literature related to brain mechanisms and cognitive processes. Emphasis is given to neurological models of brain processes and to functional models of verbal symbols, concepts and cognitive processes.

**6143. Techniques of Assessment II**

3 (3-0)

Prerequisite: Psychology 5133 or consent of the instructor.

Theory and practice in the use of assessment procedures. Emphasis is upon interviewing, personality and clinical assessment including both objective and projective techniques.

**6153. Practicum I**

3 (3-0)

Prerequisites: Completion of graduate core of 21 hours and consent of the practicum supervisor.

Consists of 150 clock hours of work and study in an approved setting which provides psychological services such as a Community MHMR Center, a psychiatric hospital or a counseling center. This work and study is to be supervised by a certified psychologist.

**6163. Practicum II**

3 (3-0)

Prerequisites: Acceptable completion of Psychology 6153 and consent of the practicum supervisor.

A continuation of Practicum I consisting of 150 clock hours of work and study in an approved setting which provides psychological services such as a Community MHMR Center, a psychiatric hospital or a counseling center. This work and study is to be supervised by a certified psychologist. The student is required to prepare a substantial research paper on some aspect of his or her work and study experience.

**6173. Advanced Physiology and Perception**

3 (3-0)

Prerequisite: Undergraduate physiology or consent of the instructor.

An analysis of structural and conceptual models of sensory, perceptual and neurological mechanisms. Emphasis is placed on physiological functioning and models of sensory processing, sensory encoding and information processing.

**6983, 6993. Thesis**

6 semester hours

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## **SOCIOLOGY PROGRAM**

Assistant Professors: Clark, Williams

Instructors: Grooms, Southard

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The requirements for the Bachelor of Arts Degree with a major in sociology are as follows:

**General** (see page 30)

**Departmental**

**Major** (30 semester hours)

Sociology 1133, Anthropology 1233, Psychology 3313 or an equivalent introductory course in statistics, Research Methods 3633, 4153; and 15 semester hours of which nine must be advanced, selected with the approval of the department adviser. No more than nine semester hours of anthropology may be counted toward a sociology major.



Minor is to be selected in a field acceptable to the chairmen of the major and minor departments.

### REQUIREMENTS FOR A MINOR IN SOCIOLOGY

Eighteen semester hours including Sociology 1133, Anthropology 1233; plus 12 additional semester hours of which nine must be advanced, selected with approval of the department adviser. No more than six semester hours of anthropology may be counted toward a sociology minor.

### COURSES IN SOCIOLOGY

**1133. Introductory Sociology** 3 (3-0)

Study of man as a product of groups; scientific analysis of factors and principles underlying institutions, culture, collective behavior, and social processes in human interaction.

**2233. Social Problems** 3 (3-0)

Prerequisites: Sociology 1133 and Anthropology 1233 or consent of instructor.

Facts and theories of social problems and social change with stress on the development of present social institutions.

**3333. Criminology** 3 (3-0)

Prerequisites: Sociology 1133 and Anthropology 1233 or consent of instructor.

Crime and criminals, causation theories and analyses; law enforcement and methods of correction.

**3343. Urban Sociology** 3 (3-0)

Prerequisites: Sociology 1133, Anthropology 1233.

The history, ecology, demography, social institutions, group and individual behavior, peculiar to urbanism. Social planning suggested in view of the role of the metropolitan region in modern society.

**3353. Penology** 3 (3-0)

Prerequisites: Sociology 1133 and 3333 or 3733.

An examination of theories and methods of penal practice. Special attention is given to development of modern correctional institutions, prison systems, probation and parole.

**3403. Social Psychology** 3 (3-0)

For course descriptions see psychology section.

May be taken for either psychology or sociology credit, but not for both.

**3413. Social Work** 3 (3-0)

Prerequisites: Sociology 1133 and Anthropology 1233 or consent of instructor.

General application of social science and sociological concepts to meet human needs. History, programs, attitudes, and philosophy of social work. The development of social welfare programs, community organization, and social planning in community life.

**3433. The Family** 3 (3-0)

Prerequisite: Three hours of sociology or the consent of the instructor.

Study of the family as a basic social unit; analysis of structure and function, with emphasis on the socialization processes in the American family.



**3543. Advanced General Sociology** (formerly 4633) 3 (3-0)

Prerequisites: Sociology 1133, Anthropology 1233.

Advanced analysis of the major concepts and assumptions in sociology such as alienation, authority, community, status, and the sacred. Systematic review and integration of social processes, social structure, and contemporary social theory.

**3633. Research Methods** 3 (3-0)

Prerequisites: Sociology 1133, Anthropology 1233.

An introduction to methods and techniques of sociological research; examination and application of quantitative and qualitative methods of sociological data through selected research programs.

**3733. Juvenile Delinquency** 3 (3-0)

Prerequisites: Sociology 1133 and Anthropology 1233 or consent of instructor.

Nature, extent, and causes of juvenile delinquency; youthful offenders and their career patterns; institutional controls and correctional programs.

**3803. Medical Sociology** 3 (3-0)

Prerequisites: Sociology 1133, Anthropology 1233.

Social factors and institutional settings for physical and mental health care; public needs and group medical services; social interaction in hospitalization and institutions of rehabilitation.

**3903. Social Organizations** 3 (3-0)

Prerequisites: Sociology 1133, Anthropology 1233.

An analysis of the type and functions of complex, large scale organizations as they relate to man, (e.g., governmental, industrial, and military bureaucracies). Includes formal and informal relations, organizational interrelations and interactions, communication processes, and control mechanisms.

**4001-4002-4003. Special Projects** 1-3 semester hours

Prerequisites: Nine hours of sociology including Sociology 1133, Anthropology 1233 and consent of the instructor.

Intensive study for the advanced student within a special area in the field of sociology.

**4133. Minority Groups** 3 (3-0)

Prerequisites: Sociology 1133, Anthropology 1233.

Characteristics and distribution of ethnic and other cultural minorities in modern societies.

**4153. Sociological Theory** 3 (3-0)

Prerequisites: Sociology 1133, Anthropology 1233.

A survey and analysis of development of sociological theory from the time of Comte to the present. Particular schools and major paradigms are evaluated, and recent confluences in social anthropology, sociology, and social psychology are noted.

**4233. History of Social Thought** 3 (3-0)

Prerequisites: Sociology 1133, Anthropology 1233.

Social theories of representative social thinkers and systems as they are related to the development of formalized social thought and sociology.

**4333. Population** 3 (3-0)

Prerequisites: Sociology 1133, Anthropology 1233.

Population composition, distribution, growth, migration, control, and demographic methodology, with emphasis on the United States and Latin America.

**4433. Social Stratification** 3 (3-0)

Prerequisites: Sociology 1133; Anthropology 1233, and three hours of advanced sociology, or consent of the instructor.

The study of the structure, process, dimensions, and consequences of social ranking and inequality. Class, status, power, and mobility in comparative perspective.

**4533. The Sociology of Education** 3 (3-0)

Prerequisites: Sociology 1133, Anthropology 1233.

The interactions of individuals within the various school systems; the school as a contemporary social system; the influence of the societal cultures and subcultures upon instruction, and the roles of the school in reinforcing various cultural trends.

**4733. Selected Topics in Sociology** 3 (3-0)

Prerequisites: Sociology 1133, Anthropology 1233, and three hours of advanced sociology.

Intensive study and coverage of selected topics in sociology. May be repeated for credit when topics vary.

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## ANTHROPOLOGY PROGRAM

Assistant Professor: Colee

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### REQUIREMENTS FOR A MINOR IN ANTHROPOLOGY

For a Bachelor of Arts degree, 21 semester hours including Sociology 1133; Anthropology 1233, 2033, 2133 plus nine advanced hours selected with approval of the department adviser. No more than six semester hours of sociology may be counted toward an anthropology minor.

### COURSES IN ANTHROPOLOGY

**1233. Introduction to Cultural Anthropology** 3 (3-0)

Institutions and ways of life of prehistoric and historic, economically primitive people, with emphasis on the society of each as a functioning and integrated whole.

**2033. Introduction to Archaeology** 3 (3-0)

Prerequisites: Sociology 1133; Anthropology 1233.

Introduction to the methods and theoretical bases of archaeological investigation and reconstruction of prehistoric cultures through their material remains.

**2133. Introductory Physical Anthropology** 3 (3-0)

Prerequisites: Anthropology 1233; Sociology 1133.

Major items in the fossil evidence from human evolution and of the various interpretations of the data. Development of an understanding of man

in both the biological and the cultural sense. Discussion of the principles, the potential and the limitations of current studies in human paleontology, human biology and primatology.

**3033. Cultures of Latin America** 3 (3-0)

Prerequisites: Anthropology 1233; Sociology 1133.

Traditional Latin American cultures, the acculturative process as it affected natives and Europeans following the conquest, and the complex problems faced by contemporary Latin American cultures as the developing nations of the western hemisphere.

**3133. The Cultures of Asia** 3 (3-0)

Prerequisites: Anthropology 1233; Sociology 1133.

Asian communities and cities as seen by various sociological and anthropological observers against the backgrounds of traditionalism plus contemporary social and cultural changes.

**3203. American Indians** 3 (3-0)

Prerequisite: Anthropology 1233.

Origins, development and attainments of the new world aboriginal cultures emphasizing ethnographic accounts of these people in the historic period.

**3233. The Cultures of Africa** 3 (3-0)

Prerequisites: Anthropology 1233; Sociology 1133.

The traditional tribal peasant villages, the contemporary cultures of Sub-Saharan Africa, and the rapidly growing urban centers as viewed by sociological and anthropological observers.

**3533. American Archaeology** 3 (3-0)

Prerequisite: Anthropology 1233.

Archaeological evidence on the development of the distinctively American cultures and the sequence of their development.

**4011-3. Special Projects** 1-3 semester hours

Prerequisites: Anthropology 1233, 2033, 2133 and consent of the instructor.

Intensive study for the advanced student within a special area in the field of anthropology.

**4123. Regional Study in Ethnology** 3 (3-0)

Prerequisites: Anthropology 1233, 2033, 2133, and consent of the instructor.

Ethnological examination of a selected culture area, its development during the historic period, and of the theoretical and methodological advances which have resulted from studies in the area. Important areas and sub-areas to be included are Oceania, Circum-polar, Middle East, Southeast Asia, Southwest, Plains. May be repeated for credit when topics vary.

**4133. Regional Study in Archaeology** 3 (3-0)

Prerequisites: Anthropology 1233, 2033, 2133, and consent of the instructor.

Archaeological examination of the prehistory of a selected culture area, and of the theoretical and methodological advances which have resulted from studies of the prehistory of the area. Important areas and sub-areas to be

included are Asia, Africa, Europe, Middle East, Meso America, South America, Southwest. May be repeated for credit when topics vary.

**4143. Multicultural Context of Education**

3 (3-0)

Prerequisites: Advanced standing and consent of the instructor.

An examination of different cultural customs, beliefs, and perception as these influence and interact with the educational process. The multicultural background of students as it affects the learning process, classroom interaction, curriculum planning, and administration. Major emphasis is upon the different cultural groups in Texas and the Southwest region.

## DEPARTMENT OF SPEECH AND DRAMA

**June E. Kable, Chairman** (215 Hardin Administration  
Building, South)

Professors: Decamp, Kable

Associate Professor: Gerlach

Assistant Professors: Cowart, Henschel, Taylor

Instructor: Sodders

### UNDERGRADUATE PROGRAMS

The requirements for the degree of Bachelor of Arts with a major in speech or drama are as follows:

**General** (see page 30)

**Departmental**

**Major in Speech** (33 semester hours)

1133, 1233\*, 2023, 2133\*, 3023, and 18 semester hours of which 15 are advanced

**Major in Speech with emphasis in Speech and Hearing Therapy** (33 semester hours)

1133, 1233, 2603, 2613, 3623, 3633, 3643, 4213, 4653, 4663, 4673. A total of 200 clock hours of clinical practice is required for certification.

**Major in Drama** (33 semester hours)

1233\*, 1411, 1513, 1611, 2133\*, 2533, 2543, 3433, 3443, plus 10 semester hours

For requirements for the degree of Bachelor of Science in Education with speech or drama as the first or the second teaching field, see Department of Education. Students who plan to teach in the public schools should confer with the dean of the School of Education as to teacher certification requirements.

### REQUIREMENTS FOR A MINOR IN SPEECH OR DRAMA (18 semester hours)

Minor in Speech: 1133, 1233, 2023, 3023, and six additional hours of which three must be advanced

Minor in Speech with emphasis in Radio-Television: Speech 1133, 2033 or 4043, 2133; Drama 3433; Journalism 3043.

\*May be taken either for speech credit or for drama credit, but not for both.

Minor in Drama: 1233, 1411, 1513, 1611, and 10 additional hours of which six must be advanced

## GRADUATE PROGRAMS

The requirements for the degree of Master of Arts with a major in speech and/or drama are as follows:

**General** (see page 306)

### Departmental

**Major:** 30 semester hours of approved courses, including thesis. Concentration may be entirely in the speech area, entirely in the drama area, or in a combination of the two.

If concentrating in drama, the student must demonstrate superior understanding in at least four of the following categories and satisfactory understanding in all of them: history and aesthetics of the theatre, acting, directing, voice and diction, interpretation, scene design and construction, costume design and construction, stage make-up and playwriting.

If concentrating in speech, the student must demonstrate proficiency in voice and phonetics, oral interpretation, and public address. A scholarly background in rhetorical theory and criticism should provide a basis for the above requirements.

For a spread of emphasis in speech and drama, a corresponding breadth must be shown. A balanced preparation, according to the individual need of the student, must be achieved.

**Minor:** A minimum of 12 semester hours of approved courses.

## COURSES IN SPEECH

### FOR UNDERGRADUATES

**1133. Fundamentals in Speech Communication** 3 (3-0)

Development of skills in speech communication. Preparation and delivery of speeches. Study of nonverbal communication, psychological motivation, and one-to-one communication.

**1233. Voice and Diction** 3 (3-0)

Examination of the structure of the vocal apparatus. Analysis of the sound system of the English language. Work on the speaking voice and on general American pronunciation. Emphasis on the International Phonetic Alphabet and on oral practice. Same as Drama 1233.

**1811. Fundamentals of Argumentation** 1 (1-2)

Introduction to argumentation on problems of national scope.

**1911. Fundamentals of Argumentation** 1 (1-2)

Prerequisite: 1811 or consent of instructor.

Research and practice in argumentation on problems of national scope.



- 2023. Argumentation and Debate** 3 (3-0)  
 Prerequisite: 1133 or consent of the instructor.  
 Foundations of argumentative discourse. Emphasis on the construction and delivery of logical argument and development of skill in critical thinking.
- 2033. Communication in Interpersonal Relations** 3 (3-0)  
 Training in group dynamics with emphasis on interpersonal and intergroup communication; problems in group discussion, dialogue, and decision-making.
- 2133. Oral Interpretation** 3 (3-0)  
 Prerequisites: 1133, 1233 or consent of the instructor.  
 Analysis of oral interpretation as an art. Consideration of the aim of the interpreter as finding the meanings in the literature and stirring up those meanings in the minds of the listeners. Same as Drama 2133.
- 2811. Laboratory in Argumentation** 1 (1-2)  
 Prerequisite: 1911 or consent of the instructor.  
 Practical experience in argumentation.
- 2911. Laboratory in Argumentation** 1 (1-2)  
 Prerequisite: 2811 or consent of instructor.  
 Practical experience in argumentation.
- 3023. Persuasion** 3 (3-0)  
 Prerequisite: 1133 or consent of the instructor.  
 Advanced study and analysis of persuasive principles with a special emphasis on practical application.
- 3133. Advanced Interpretation and Readers Theatre** 3 (2-2)  
 Prerequisite: 2133 or consent of the instructor.  
 Advanced work in the interpretation of prose and poetry. Emphasis upon dramatic literature. Same as Drama 3133.

#### FOR UNDERGRADUATES AND GRADUATES

Prerequisites for taking 4000 courses for graduate credit: 15 hours in the field or consent of the chairman.

- 4013. Forms of Public Address** 3 (3-0)  
 Prerequisite: 1133.  
 Study in application of rhetorical principles to situational events in historical and contemporary speech.
- 4033. Speech Composition** 3 (3-0)  
 Prerequisite: 1133 or consent of the instructor.  
 An advanced course in the composition and delivery of speeches for various occasions.
- 4043. The Psychology of Speech** 3 (3-0)  
 Prerequisite: 1133 or consent of the instructor.  
 Analysis of the nature and origin of speech in terms of psychological and behavioral aspects including the semantical development of speech and language. A study of the correlation of speech and personality.

- 4141, 4142, 4143. **Problems in Speech** 1-3 semester hours  
Prerequisite: Consent of chairman.  
Directed research in speech. May be repeated for credit when topics vary.
4213. **Applied Phonetics** 3 (3-0)  
Prerequisite: 1233 or consent of the instructor.  
General phonetic principles and practice. The regional dialects of the United States: General American, Southern, and Eastern. Standard British speech (stage speech). Same as Drama 4213.
4813. **Directing the Forensics Program** 3 (3-0)  
Methods of planning, initiating, and administering a curricular and extra-curricular forensics program on both the high school and college level. Emphasis on all forensics activities, with particular attention focused on debate.

### FOR GRADUATES

5003. **Bibliography and Research** 3 (3-0)  
Prerequisite: 15 hours in the field or consent of chairman.  
Sources of material in the field and techniques in the handling of it. The writing of a research paper. Same as Drama 5003.
5013. **Rhetorical Criticism** 3 (3-0)  
Prerequisite: 15 hours in the field or consent of chairman.  
A study and application of modern interpretations of Aristotelian tools of rhetorical criticism.
5023. **Introduction to Rhetorical Theory** (formerly 4003) 3 (3-0)  
Prerequisite: 15 hours in the field or consent of the department chairman.  
The development of rhetorical theory through a study of major writings on oral communication from ancient Greece to the present.
5033. **Speech Composition** 3 (3-0)  
Prerequisite: 15 hours in the field or consent of chairman.  
An advanced course in the composition and delivery of speeches for various occasions.
5043. **The Psychology of Speech** 3 (3-0)  
Prerequisite: 15 hours in the field or consent of chairman.  
Analysis of the nature and origin of speech in terms of psychological and behavioral aspects including the semantical development of speech and language. A study of the correlation of speech and personality.
5213. **Dialects of the English Language** 3 (3-0)  
Prerequisite: 15 hours in the field or consent of chairman.  
A study of various dialects of English: Cockney, Scotch, Irish, Yiddish, Brooklynese, French, German, Spanish, Scandinavian, Russian. An analysis of the sound system of each of the foreign languages and, in each case, a comparison with the sound system of English. A discovery of the dialects from these comparisons. Same as Drama 5213.
5223. **Workshop in Directing UIL Activities in the Secondary Schools** 3 (3-0)  
Prerequisite: 15 hours in the field or consent of the chairman.  
Workshop in directing secondary level students in UIL activities such as:

debate, forensics, dramatic interpretation, poetry interpretation, duet-acting, and one-act play. Concentrates upon cultural benefits of these activities and provides instruction in selecting, arranging, editing and presentation of materials.

**5233. The Role of Interpersonal Communication in the Secondary Classroom** 3 (3-0)

Prerequisite: 15 hours in the field or consent of the chairman.

Techniques of developing programs of interpersonal communications on the junior high and high school levels. Emphasis on one-to-one and small group situations found in everyday communication encounters.

**5713. Selected Problems** 3 semester hours

Prerequisite: 15 hours in the field or consent of chairman.

Advanced study and research in specific areas. May be repeated for credit. Same as Drama 5713.

**6013. Seminar: Studies in Oratory** 3 (3-0)

Prerequisite: 15 hours in the field or consent of chairman.

Study in depth of the role of rhetoric in the history of a given people during a given period. Particular attention given to speakers, speeches, and movements.

**6023. Contemporary Rhetoric** 3 (3-0)

Prerequisite: 15 hours in the field or consent of chairman.

Analysis of the rhetoric of contemporary, social, and political movements.

**6143. Seminar: Studies in Oral Interpretation** 3 (3-0)

Prerequisite: 15 hours in the field or consent of chairman.

Study in depth of a selected aspect of work in oral interpretation. Same as Drama 6143.

**6333. Philosophy of Speech Education** 3 (3-0)

Prerequisite: 15 hours in the field or consent of chairman.

The history of speech education in America and the accompanying educational philosophies. Emphasis on nineteenth and twentieth century thought.

**6983, 6993. Thesis** 6 semester hours

Prerequisite: Completion of course work or consent of chairman.

## **COURSES IN SPEECH AND HEARING THERAPY**

**2603. Speech Correction: A Survey** 3 (3-0)

A survey of the defects of speech with particular emphasis on articulation defects and language problems. Consideration of fundamental diagnostic and therapeutic principles in the school and clinic. One hour per week observation required.

**2613. Speech Correction: Pathology and Therapy** 3 (3-0)

The nature, symptom and rehabilitation of cleft palate, speech and voice problems. Review of current theories and recent experimental work. One hour per week observation required.

**3623. Methods of Clinical Audiology** 3 (3-0)

The human ear and its abnormalities. Administration and interpretation of hearing tests. One hour per week observation required.

3633. **Aural Rehabilitation** 3 (3-0)  
Measurement and diagnosis of hearing impairments, principles of hearing aid selection, and retraining of the aurally handicapped through speech reading and auditory training.
3643. **Procedures in Speech Correction and Audiology** 3 (3-0)  
A practical course in diagnosis, construction of therapy plans and therapy techniques. Special emphasis on the administration of public school therapy programs.
- 4651, 4652, 4653. **Clinical Practice in Speech and Hearing Therapy** 1-3 semester hours  
Experience in clinical methods in speech and hearing center. Diagnostic and therapeutic procedures in speech and hearing therapy. Requirements: three hours of clinical practice a week per credit hour.
4663. **Stuttering: Theories and Therapies** 3 (3-0)  
A detailed investigation of historical and current theories of the causes of stuttering. A comparative study of the various therapies proposed for stutterers. Analysis of recently reported experimental research.
4673. **Organic Speech and Language Disorders** 3 (3-0)  
A study of the speech and language problems resulting from aphasia, cerebral palsy and mental retardation. A systematic investigation of speech therapy methods applicable to these disorders.

## COURSES IN DRAMA

### FOR UNDERGRADUATES

1233. **Voice and Diction** 3 (3-0)  
Examination of the structure of the vocal apparatus. Analysis of the sound system of the English language. Work on the speaking voice and on general American pronunciation. Emphasis on the International Phonetic Alphabet and on oral practice. Same as Speech 1233.
1411. **Movement** 1 (1-2)  
Principles of body movement for stage, platform, camera, etc.
1421. **Period Movement** 1 (1-0)  
Exploration of relationship between movement and feeling specifically related to historical periods.
1503. **Appreciation of Theatre** 3 (3-0)  
Analysis of the theatre experience, especially from the viewpoint of the spectators. Aesthetic principles involved in all phases of the theatrical art. The development of this art by mankind.
1513. **Scene Construction** 3 (2-2)  
Construction and painting of stage scenery and properties.
1611. **Stage Makeup** 1 (1-2)  
Principles of straight and character makeup. Practical experience with stage productions. Laboratory fee: \$3.00.

**2121. Rehearsal and Production** 1 semester hour

Laboratory in dramatic productions of the department. Participation in the performance or production of at least one drama involving a minimum of 45 clock hours. May be repeated five times for credit. A maximum of three hours may be applied toward a drama major or minor.

**2133. Oral Interpretation** 3 (3-0)

Prerequisites: Speech 1133 and Drama 1233 or consent of the instructor.

Analysis of oral interpretation as an art. Consideration of the aim of the interpreter as finding the meanings in the literature and stirring up those meanings in the minds of the listeners. Same as Speech 2133.

**2533. Techniques in Building a Role** 3 (3-0)

Prerequisite: 1411 or consent of the instructor.

Various techniques in building a role. Philosophies of Stanislavski, Coquelin, and others. Work in long and short plays.

**2543. Applied Technique in Acting** 3 (2-2)

Prerequisite: 2533 or consent of the instructor.

Application of techniques in voice, movement, and psychology to the playing of roles.

**3133. Advanced Interpretation and Readers Theatre** 3 (2-2)

Prerequisite: 2133 or consent of the instructor.

Advanced work in the interpretation of prose and poetry. Emphasis upon dramatic literature. Same as Speech 3133.

**3433. Principles of Directing** 3 (2-2)

Prerequisite: 2433 or consent of the instructor.

Fundamental principles and aesthetics of directing. Criteria and procedures in selection, casting, rehearsal and production. Lecture and laboratory in class productions.

**3443. Direction of Plays** 3 (2-2)

Prerequisite: 3433 or consent of the instructor.

Direction of plays for public performance. Class lecture and critique on laboratory productions for the public. Laboratory fee: \$3.00.

**3446. Repertory Theatre** 6 (0-18)

Rehearsal, performance, and production of repertory shows. Theatre practicum. May be repeated once for credit.

**3463. Scene Design** 3 (2-2)

Prerequisite: 1511 or consent of the instructor.

Study and practice in theatrical design theories, past and present.

**3473. Stage Lighting** 3 (2-2)

Prerequisite: 1511 or consent of the instructor.

Study and practice in lighting theories. Physics of electricity as applied to theatrical use. Study of lighting instruments and control equipment.



**FOR UNDERGRADUATES AND GRADUATES**

Prerequisites for taking 4000 courses for graduate credit: 15 hours in the field or consent of the chairman.

4141, 4142, 4143. **Problems in Drama** 1-3 semester hours

Prerequisite: Consent of chairman.

Directed research in drama. May be repeated for credit when topics vary.

4213. **Applied Phonetics** 3 (3-0)

Prerequisite: 1233 or consent of the instructor.

General phonetic principles and practice. The regional dialects of the United States: General American, Southern, and Eastern. Standard British speech (stage speech). Same as Speech 4213.

4423. **Creative Dramatics** 3 (2-2)

The use of story dramatization, role playing and improvisation for the purpose of developing critical thinking, creativity and social communication skills in the child. It is designed for prospective teachers of all disciplines.

4433. **History and Aesthetics of the Theatre to 1800** 3 (3-0)

History and theory of playwriting, directing, acting, and production from the beginnings through the eighteenth century.

4443. **History and Aesthetics of the Theatre in the Nineteenth and Twentieth Centuries** 3 (3-0)

History and theory of playwriting, directing, acting, and production in the nineteenth and twentieth centuries. Special study of the contemporary theatre.

4463. **Construction of Stage Costumes** 3 (2-2)

Techniques in the making of stage costumes. Drafting and adapting of patterns for period and modern clothes for the stage.

4473. **Design of Stage Costumes** 3 (2-2)

Prerequisite: 4463 or consent of the instructor.

Design and construction of stage costumes from the earliest times to the present.

**FOR GRADUATES**

5003. **Bibliography and Research** 3 (3-0)

Prerequisite: 15 hours in the field or consent of the chairman.

Sources of material in the field and techniques in the handling of it. The writing of a research paper. Same as Speech 5003.

5213. **Dialects of the English Language** 3 (3-0)

Prerequisite: 15 hours in the field or consent of the chairman.

A study of various dialects of English: Cockney, Scotch, Irish, Yiddish, Brooklynese, French, German, Spanish, Scandinavian, Russian. An analysis of the sound system of each of the foreign languages and, in each case, a comparison with the sound system of English. A discovery of the dialects from these comparisons. Same as Speech 5213.

**5223. Workshop in Directing UIL Activities in the  
Secondary Schools**

3 (3-0)

Prerequisite: 15 hours in the field or consent of the chairman.

Workshop in directing secondary level students in UIL activities such as: debate, forensics, dramatic interpretation, poetry interpretation, duet-acting, and one-act play. Concentrates upon cultural benefits of these activities and provides instruction in selecting, arranging, editing and presentation of materials.

**5423. Creative Dramatics**

3 (2-2)

Prerequisite: 15 hours in the field or consent of chairman.

The use of story dramatization, role playing and improvisation for the purpose of developing critical thinking, creativity and social communication skills in the child. It is designed for prospective teachers of all disciplines.

**5433. History and Aesthetics of the Theatre to 1800**

3 (3-0)

Prerequisite: 15 hours in the field or consent of chairman.

History and theory of playwriting, directing, acting, and production from the beginnings through the eighteenth century.

**5713. Selected Problems**

3 semester hours

Prerequisite: 15 hours in the field or consent of the chairman.

Advanced study and research in specific areas. May be repeated for credit. Same as Speech 5713.

**6143. Seminar: Studies in Oral Interpretation**

3 (3-0)

Prerequisite: 15 hours in the field or consent of the chairman.

Study in depth of a selected aspect of work in oral interpretation. Same as Speech 6143.

**6413. Evolution of Dramatic Theory**

3 (3-0)

Prerequisite: 15 hours in the field or consent of the chairman.

Analysis of the development of dramatic criticism from the time of Aristotle to the present. Research in changing methods of playwriting, directing, acting, and design.

**6433. Seminar: Studies in Theatre**

3 (3-0)

Prerequisite: 15 hours in the field or consent of the chairman.

Study in depth of a selected aspect of the development of the aesthetics of the theatre.

**6446. Repertory Theatre: Advanced**

6 (0-18)

Prerequisite: 15 hours in the field or consent of the chairman.

Supervision of work in rehearsal, performance, and production of repertory shows. Advanced theatre practicum.

**6983, 6993. Thesis**

6 semester hours

Prerequisite: Completion of course work or consent of the chairman.

# **School of Sciences and Mathematics**

**Interdisciplinary Programs and Courses**

**Department of Biology**

**Department of Chemistry**

**Department of Geological Sciences**

**Department of Mathematical Sciences**

**Department of Nursing**

**Department of Physics**

**Division of Health Sciences**



# The School of Sciences and Mathematics

JOHN W. MEUX, *Dean*  
102A Science Building

## REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREE

**General** (see page 30)

**Major** (27-40 semester hours, see specific department)

**Minor** (18-20 semester hours, see specific department)

**General Requirements** (22 semester hours)

English 1113, 1123

History 1133, 1233

Political Science 1333, 1433

Satisfaction of the requirement for physical education activities and/or  
basic military science

**Additional General Requirements** (21 semester hours exclusive of major  
and minor)

- (1) Computing Science 2003 or Statistics 3573 if computer science is  
the minor
- (2) Three semester hours from art, drama, humanities, literature,  
music, philosophy, or religion
- (3) Three semester hours from economics, education, geography, ad-  
vanced military science, psychology, sociology, speech, statistics or  
technical writing
- (4) 12 additional semester hours (see major department for specific  
courses)

**Departmental Requirements** (see major department for specific courses)

All B.S. degree programs must include at least two courses in each of two  
laboratory sciences and two courses in mathematics. Statistics 3573 may be  
used to satisfy three hours of this mathematics requirement. These may be  
included as part of the major and/or minor.

**Note:** All unspecified courses must be approved by the student's adviser.

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## GEOPHYSICS PROGRAM

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This program is designed to enable graduates to enter directly into a  
professional career in exploration geophysics in mineral or petroleum indus-  
tries, or to prepare a student for graduate study and research in solid-earth  
geophysics, oceanography, or the planetary sciences.



Consult the Physics Department Chairman or Chairman of the Department of Geological Sciences for an adviser.

The requirements for the degree of Bachelor of Science with a major in geophysics are as follows:

**General** (see page 31)

**Major**

Geology 1133, 1233, 2134, 2233, 2332, 3334, 4634, six additional advanced hours and an approved six-hour field course

Physics 1624, 2644, 3034, 3144, 3154, 3243, 4453

**Minor**

Mathematics 1533, 1633, 1733, 2533, 3433, 3533

**General Requirements** (see page 247)

**Additional General Requirements** (see page 247)

Specific courses for Item 4:

Foreign Languages 1133, 1233

Engineering Drawing 1133, 1233

**Departmental Requirements**

Chemistry 1142, 1143, 1242, 1243, 3603, 3612, 3703

## DEPARTMENT OF BIOLOGY

**Arthur F. Beyer, Chairman** (212B Science Building)

Professors: Beyer, Dalquest

Associate Professors: Boswell, Grimes, Horner

Assistant Professor: Scott

The requirements for the degree of Bachelor of Science with a major in biology may be satisfied in any of four areas of emphasis.

A. Molecular-cellular option

B. Classical Option

C. Wildlife Ecology option

D. Pre-medical (premedicine, predentistry, preveterinary) option

**General** (all options, see page 31)

**Major**

Option A

Biology 1144, 1344, 1544, 3331, 3333, 4001; three advanced hours in both botany and zoology; six additional advanced hours (29 hours)

Option B

Biology 1144, 1344, 1544, 3331, 3333, 4001; three advanced hours in both botany and zoology; eleven additional advanced hours. Biology 2234 and 2334 also required if student is emphasizing zoology (34-42 hours)

**Option C**

Biology 1144, 1344, 1544, 2234, 2334, 3133, 4001; 16 additional hours selected from Biology 2433, 3033, 3331, 3333, 3434, 3533, 3643, 3833, 4133, 4683 (40 hours)

**Option D**

Biology 1144, 1344, 1544, 2234, 2334, 3331, 3333, 4001; eight additional advanced hours (33 hours)

**Minor****Option A**

Chemistry 1142, 1143, 1242, 1243, 2302, 2303, 3502, 3503, 3603, 4243 (26 hours)

**Option B**

Consult adviser for approved minor and specific courses

**Option C**

Interdisciplinary minor: Geology 1133, 1233, 3023; Geography 3013; Mathematics 1233; Statistics 3573

**Option D**

Consult adviser for approved minor and specific courses

**General Requirements** (all options, see page 31)**Additional General Requirements** (all options, see page 247)

Specific courses for Item 4: Foreign Languages 1133, 1233 (all options)

Option A: Mathematics 1533, 1633, 1733

Option B: Six hours from Mathematics 1233, 1433, 1533, 1633, 1733 or 2533 if mathematics is not the minor; otherwise Chemistry 1142, 1143, 1242, 1243

Option C: Chemistry 1142, 1143, 1242, 1243

Option D: Six hours in mathematics including Mathematics 1633 if mathematics is not the minor; otherwise Chemistry 1142, 1143, 1242, 1243

**Departmental Requirements**

All courses listed below which are not included in the minor or in Additional General Requirements:

Option A: Physics 1644, 2644; Mathematics 2533

Option B: Chemistry 1142, 1143, 1242, 1243, 2302, 2303; Physics 1144, 1244; or Physics 1624, 2644

Option C: Chemistry 2302, 2303; Physics 1144, 1244

Option D: Chemistry 1142, 1143, 1242, 1243, 2302, 2303, 3502, 3503; Physics 1624, 2644

**REQUIREMENTS FOR A MINOR IN BIOLOGY** (20 semester hours)

Biology 1344 and either 1144 or 1544 or both plus 8-12 additional semester hours, of which six must be advanced. Courses must be selected in consultation with the department adviser.

**GRADUATE PROGRAMS**

The requirements for a degree of Master of Science with major in the field of biology are as follows:

**General** (see page 306)

**Departmental** (Consult department chairman)

**Major**

Option 1: 30 semester hours of approved courses including Biology 6983, 6993 (thesis)

Option 2: 18 semester hours of approved courses in biology including 6983, 6993 (thesis) and an approved minor of 12 semester hours

**Minor**

A minimum of 12 semester hours of approved courses, with the exception that secondary education majors selecting a divided minor may be approved for a nine-hour minor by the department chairman.

**COURSES IN BIOLOGY****FOR UNDERGRADUATES**

1133-1233. **Anatomy and Physiology** 6 (2-2)

Human anatomy and physiology. Structure of systems demonstrated by models, specimens, slides and charts. For students of physical education and nursing. Two semesters. Laboratory fee: \$5.00 per semester.

1144. **General Zoology** 4 (3-2)

Basic principles concerning animal biology with selected types from each group. Laboratory fee: \$5.00.

1333. **Nutrition** 3 (3-0)

A study of nutrients essential to an adequate diet for the various age groups. The nutritive values of common foods as well as the socio-economic and cultural aspects in planning well balanced nutritious meals for the family are explored.

1344. **Human Biology** 4 (3-2)

Principles of biology and their application with special reference to the structure and functions of the human body. Laboratory fee: \$5.00.

1544. **General Botany** 4 (3-2)

General principles of plant biology, including structure, functions, distribution, heredity and phylogenetic relations. Laboratory fee: \$5.00.

2144. **Microbiology** 4 (3-2)

Prerequisites: One year of biology and consent of chairman.

Introduction to the study of medically important bacteria, protozoa, viruses, helminths and fungi. Laboratory fee: \$5.00.

2234. **Comparative Anatomy of the Vertebrates** 4 (2-4)  
Prerequisite: One year of biology or consent of instructor.  
Organ systems of chordates considered in relation to each other. Laboratory fee: \$5.00.
2334. **Comparative Anatomy of the Vertebrates** 4 (2-4)  
Prerequisite: Biology 2234.  
Continuation of Biology 2234. Emphasis on mammalian group. Dissection of the cat. Laboratory fee: \$5.00.
2433. **Plant Propagation** 3 (2-2)  
Prerequisite: Biology 1544 or equivalent.  
Practice and principles underlying the production of various kinds of seed plants. Laboratory fee: \$5.00.

### FOR UNDERGRADUATES AND GRADUATES

3011. **Cytotechnique Laboratory I** 1 (0-2)  
Prerequisite: Prior or concurrent enrollment in Biology 3013.  
Examination of cells; cell division and organelles. Exercises on antigen-antibody reactions. Elementary microtechnique.
3013. **Cell Biology I** 3 (3-0)  
Prerequisite: One year of biology or consent of instructor.  
Organization and activities of the cell. Theoretical aspects of the immune response. Topics related to cytogenetics.
3021. **Cytotechnique Laboratory II** 1 (0-2)  
Prerequisite: Biology 3011.  
Exercises related to normal biochemical mechanisms of the cell. Exercises on detection, characterization, and identification of antibodies.
3023. **Cell Biology II** 3 (3-0)  
Prerequisite: Biology 3013.  
Physiological and biochemical principles of cell function. Immune mechanisms of the animal body related to infectious disease and allergic conditions.
3033. **Field Zoology** 3 (2-3)  
Prerequisite: One year of biology or consent of instructor.  
Amphibians, reptiles, fishes, birds and mammals in their natural environment, emphasizing the fauna of North Central Texas. Laboratory fee: \$5.00.
3044. **Bacteriology** 4 (3-3)  
Prerequisites: One year of biology or consent of instructor; Chemistry 1242, 1243 or equivalent.  
Morphology, physiology and classification of bacteria; their economic relation to man. Analysis of water, soil, milk, foods, and sewage. Laboratory fee: \$5.00.
3133. **Wildlife Management** 3 (3-0)  
Prerequisites: Biology 2234, 2334 or consent of instructor.  
Recognition, distribution and importance of game birds, mammals and fish of the United States. Principles of management of wildlife resources. The commercial freshwater fishery and fur industry. Non-game wildlife.

**3144. General Physiology** 4 (3-3)

Prerequisites: One year of biology; Chemistry 1242, 1243; Chemistry 3502, 3503 recommended.

General principles of physiology as illustrated by various organs and organ systems. Laboratory fee: \$5.00.

**3331. Genetics Laboratory** 1 (0-2)

Prerequisite: Prior or concurrent enrollment in Biology 3333.

Laboratory exercises illustrating basic principles of genetics using *Drosophila melanogaster*. Laboratory fee: \$5.00.

**3333. Genetics** 3 (3-0)

Prerequisite: One semester of biology.

Fundamental principles of genetics and their application to living organisms.

**3343. Vertebrate Embryology** 3 (2-2)

Prerequisite: One year of biology or consent of instructor.

Development of the typical vertebrate, emphasizing the development of the chick and pig. Laboratory fee: \$5.00.

**3434. Entomology** 4 (2-4)

Prerequisite: One year of biology or consent of instructor.

Principles of insect life. Classification, life histories and economic relations. Laboratory fee: \$5.00.

**3533. Systematic Botany** 3 (2-3)

Prerequisite: Biology 1544 or equivalent.

Local flora. Classification and identification of plants with comparison of the Bessey and Engler and Prantl systems. Laboratory fee: \$5.00.

**3643. Invertebrate Zoology** 3 (2-3)

Prerequisite: One year of biology or consent of instructor.

General principles of the invertebrates with special emphasis on structure and phylogeny.

**3833. Limnology** 3 (2-3)

Prerequisites: One year of biology or consent of instructor.

Aquatic biology: freshwater organisms, their classification and ecological conditions that govern them. Emphasis on freshwater fisheries. Laboratory fee: \$5.00.

**4001. Seminar in Biology** 1 (1-0)

Prerequisite: Restricted to senior biology or general science majors.

Recent advances in the biological sciences.

**4033. Vertebrate Paleontology** 3 (2-3)

Prerequisite: One year of biology or consent of instructor.

Fossil history of vertebrate animals; structure, phylogeny and distribution in time. Laboratory fee: \$5.00.

**4043. Human Genetics** 3 (3-0)

Prerequisites: Biology 3144, 3333; Chemistry 3502, 3503.

Principles of genetics as applied to human beings. Special reference to causation of heritable disorders and to gene flow in populations.



4133. **Ornithology** 3 (2-3)  
Prerequisite: One year of biology or consent of instructor.  
Structure, functions, habits, life histories, distribution, ecology, and identification of birds. Special emphasis on Texas birds; local field studies. Laboratory fee: \$5.00.
4443. **Histology** 3 (2-2)  
Prerequisite: One year of biology or consent of instructor.  
Cytology and histology of epithelium, blood, connective tissue, bone, muscular tissue and nerve tissue. Laboratory fee: \$5.00.
4463. **Plant Anatomy** 3 (2-2)  
Prerequisite: One year of biology or consent of instructor.  
Comparative study of vegetative and reproductive structures of the vascular plants. Laboratory fee: \$5.00.
4523. **Animal Parasitology** 3 (2-3)  
Prerequisite: One year of biology or consent of instructor.  
Host-parasite relationships in representative groups, with emphasis on taxonomic, ecological and preventive aspects. Laboratory fee: \$5.00.
4683. **Ecology** 3 (2-2)  
Prerequisite: One year of biology. Biology 3533 recommended.  
Relationship of plants and animals to each other and to their environment. Laboratory fee: \$5.00.
4743. **Plant Morphology** 3 (2-2)  
Prerequisite: One year of biology or consent of instructor.  
Morphological consideration of the plant kingdom; life histories, special structures. Laboratory fee: \$5.00.
- 4911, 4912, 4913. **Special Problems** 1-3 semester hours  
Prerequisites: A major in the department of biological sciences and consent of department chairman (also see prerequisites on page 24).  
Directed research and study in the field of the student's interest and preparation. A minimum of 54 laboratory hours per one semester hour credit. Laboratory fee: \$5.00 per semester hour.

## FOR GRADUATES

Prerequisites for all graduate courses in biology are graduate standing and consent of the instructor.

5003. **Human Genetics** 3 (3-0)  
Principles of genetics as applied to human beings. Special reference to causation of heritable disorders and to gene flow in populations.
5013. **Literature and History of the Biological Sciences** 3 (3-0)  
Methods of data retrieval, biological literature, illustrations, graphs and tables, presentation of results, treatment for publication, editorial practices of biological journals, abstracting techniques, etc.
5023. **Vertebrate Paleontology** 3 (2-3)  
Fossil history of vertebrate animals; structure, phylogeny and distribution in time. Laboratory fee: \$5.00.

5033. **Herpetology** 3 (2-3)  
Taxonomy, ecology, and behavior of amphibians and reptiles with emphasis on local forms. Laboratory fee: \$5.00.
5044. **Bacteriology** 4 (3-3)  
Morphology, physiology and classification of bacteria; their economic relation to man. Analysis of water, soil, milk, foods, and sewage. Laboratory fee: \$5.00.
5123. **Ornithology** 3 (2-3)  
Structure, functions, habits, life histories, distribution, ecology, and identification of birds. Special emphasis on Texas birds; local field studies. Laboratory fee: \$5.00.
5133. **Ichthyology** 3 (2-3)  
History, anatomy, distribution and taxonomy of fresh and salt water fishes, with special emphasis on those forms occurring in the inland waters of Texas and the Gulf of Mexico. Laboratory fee: \$5.00.
5144. **General Physiology** 4 (3-3)  
General principles of physiology as illustrated by various organs and organ systems. Laboratory fee: \$5.00.
5233. **Mammalogy** 3 (2-3)  
Structure, history, distribution and natural history of mammals, with special emphasis on those forms found in Texas. Laboratory fee: \$5.00.
5331. **Genetics Laboratory** 1 (0-2)  
Laboratory exercises illustrating basic principles of genetics using *Drosophila melanogaster*. Laboratory fee: \$5.00.
5333. **Genetics** 3 (3-0)  
Fundamental principles of genetics and their application to living organisms.
5343. **Wood Technology** 3 (2-2)  
Structure, distribution, identification, and uses of wood. Laboratory fee: \$5.00.
5413. **Biology of the Algae and Fungi** 3 (2-2)  
Reproductive cycles, economic significance and their relationship to the total ecosystem. Laboratory fee: \$5.00.
5423. **Protozoology** 3 (2-2)  
Morphology, physiology, taxonomy and life cycles of both free-living and parasitic protozoa. Laboratory fee: \$5.00.
5433. **Paleobotany** 3 (2-2)  
Occurrence and distribution of plants of past geological periods; origin and development of modern floras. Laboratory fee: \$5.00.
5443. **Histology** 3 (2-2)  
Cytology and histology of epithelium, blood, connective tissue, bone, muscular tissue and nerve tissue. Laboratory fee: \$5.00.

5523. **Animal Parasitology** 3 (2-3)  
Host-parasite relationships in representative groups with emphasis on taxonomic, ecological and preventive aspects. Laboratory fee: \$5.00.
5533. **Physiological Genetics** 3 (3-0)  
Advanced principles of genetics as applied to bacteria and viruses. Special emphasis on protein synthesis mechanisms and regulation of nucleic acid degradation and synthesis.
5553. **Biological Electron Microscopy** 3 (1-4)  
Theory and application of procedures for preparation and electron microscopy of biological materials, including ultra-thin sectioning and micrography. Due to restricted laboratory facility, enrollment limited to 8 students. Laboratory fee: \$5.00.
5633. **Advanced Topics in Molecular Biology** 3 (3-0)  
Discussions of current topics of interest in cellular biology.
5643. **Biology of the Arthropods** 3 (2-2)  
A comprehensive study of the morphology, physiology, taxonomy, and ecology of phylum Arthropoda, excluding insects. Laboratory fee: \$5.00.
5743. **Araneology** 3 (1-4)  
Classification, physiology, ecology, food habits and distribution of spiders and related forms. Emphasis on local fauna. Laboratory fee: \$5.00.
5833. **Limnology** 3 (2-3)  
Aquatic biology: freshwater organisms, their classification and ecological conditions that govern them. Emphasis on freshwater fisheries. Laboratory fee: \$5.00.
- 5911, 5912, 5913. **Special Problems** 1-3 semester hours  
Directed research in specialized areas of plant and animal sciences. Laboratory fee: \$5.00 per semester hour.
6003. **Seminar** 3 semester hours  
May be repeated for credit.
- 6983, 6993. **Thesis** 6 semester hours

## DEPARTMENT OF CHEMISTRY

Jesse W. Rogers, Chairman (310A Science Building)

Professor: Sund

Associate Professors: Palma, Rogers, Williams

Programs of study leading to the degree of Bachelor of Science with a major in chemistry are as follows:

- A. Professional option
- B. Pre-chemical engineering option
- C. Interdisciplinary option, premedical and predental emphasis
- D. Interdisciplinary option, biochemical emphasis
- E. Interdisciplinary option, business related emphasis
- F. Interdisciplinary option, computer science emphasis

**General** (all options, see page 31)

**Major**

Option A, B

Chemistry 1142, 1143, 1242, 1243, 2302, 2303, 3302, 3303, 3402, 3403, 3502, 3503, 3603, 3612, 3703, 3712, 4000, 4001. Students completing this program with a GPA of 2.5 or better in chemistry will be certified by the department to the American Chemical Society.

Option C, D, E, F

Chemistry 1142, 1143, 1242, 1243, 2302, 2303, 3302, 3303, 3502, 3503, 3603, 3612, 4000, 4001; and three additional advanced hours.

**Minor**

Option A, B

Consult adviser for approved minor and specific courses

Option C

Consult adviser for specific minor and courses

Option D

Biology 1144, 1344 and 12 additional hours in biology of which six must be advanced

Option E

Consult adviser for specific courses in minor in general business

Option F

Computing Science 2003, 2103, 3103, 3533, 3833, 4103

**General Requirements** (all options, see page 247)

**Additional General Requirements** (all options, see page 247)

Specific courses for Item 4: Foreign Languages 1133, 1233; Mathematics 1533, 1633 if mathematics is not the minor; otherwise Physics 1624, 2644

**Departmental Requirements**

Statistics 3573, all options.

All courses listed below which are not included in the minor or in Additional General Requirements:

Option A: Mathematics 1733, 2533; Physics 1624, 2644 and one advanced physics course

Option B: Mathematics 1733, 2533, 3433, 3533; Physics 1624, 2644, 3144, 3154

Option C, D, E, F: Mathematics 1733; Physics 1624, 2644

**Electives**

Additional hours to total a minimum of 124 with minimum of 39 advanced hours

**REQUIREMENTS FOR A MINOR IN CHEMISTRY** (19 semester hours)

Chemistry 1142, 1143, 1242, 1243; nine additional hours of which six must be advanced

**COURSES IN CHEMISTRY****1103. Introductory Chemistry** (Essentials of Chemistry) 3 (3-0)

Recommended for students majoring in business, education, liberal arts, nursing and health sciences. May not be taken for credit by science, mathematics or medical technology majors.

An introduction to chemical principles and concepts, environmental chemistry, radiochemistry, plastics, food additives, and other topics.

**1203. Introductory Chemistry** (Chemistry of Life Processes) 3 (3-0)

Prerequisite: Chemistry 1103 or high school chemistry is recommended.

Recommended for students majoring in business, education, liberal arts, nursing and health sciences. May not be taken for credit by science, mathematics or medical technology majors.

Essentials of organic and biochemistry.

**1142. General Chemistry Laboratory** 2 (0-4)

Prerequisite: Concurrent enrollment in Chemistry 1143.

Basic laboratory practice, gravimetric analysis. Laboratory fee: \$5.00.

**1143. General Chemistry** 3 (3-0)

Prerequisite: High School algebra.

Atomic and molecular structure, periodic law, states of matter, reactions.

**1242. General Chemistry Laboratory** 2 (0-4)

Prerequisites: Chemistry 1142 and concurrent enrollment in Chemistry 1243.

Qualitative and quantitative analysis. Laboratory fee: \$5.00.

**1243. General Chemistry** 3 (3-0)

Prerequisite: Chemistry 1143 or equivalent.

Solutions, chemical thermodynamics, equilibrium, electrochemistry and kinetics.

**2302. Organic Chemistry Laboratory** 2 (0-4)

Prerequisite: Chemistry 2303 or concurrent registration in 2303.

Laboratory experiments to accompany Chemistry 2303. Laboratory fee: \$5.00.

**2303. Organic Chemistry** 3 (3-0)

Prerequisite: Chemistry 1243 or equivalent.

A comprehensive study of the compounds of carbon.

**2900. Research Orientation**

An introduction to research topics and methods.

**3302. Analytical Chemistry Laboratory** 2 (0-4)

Prerequisite: Concurrent enrollment in Chemistry 3303 or consent of instructor.

Laboratory applications of analytical theory. Laboratory fee: \$5.00.



- 3303. Analytical Chemistry** 3 (3-0)  
Prerequisites: Chemistry 1243 and 1242 or equivalent.  
Theory of analytical methods. Volumetric, potentiometric and spectrophotometric analysis, ion exchange, extraction and chromatography.
- 3402. Analytical Chemistry Laboratory** 2 (0-4)  
Prerequisite: Concurrent enrollment in Chemistry 3403 or consent of instructor.  
Laboratory applications of analytical theory. Laboratory fee: \$5.00.
- 3403. Analytical Chemistry** 3 (3-0)  
Prerequisites: Chemistry 3303, 3302 or 3603 or consent of instructor.  
Theory of analytical methods. Absorption, emission, scattering, reflection, and dispersion in spectroscopy and spectrometry. Electroanalytical, nuclear, thermal and separation techniques.
- 3502. Organic Chemistry Laboratory** 2 (0-4)  
Prerequisite: Chemistry 2302 and Chemistry 3503 or concurrent enrollment in 3503.  
Laboratory experiments to accompany Chemistry 3503. Laboratory fee: \$5.00.
- 3503. Organic Chemistry** 3 (3-0)  
Prerequisite: Chemistry 2303.  
A continuation of 2303.
- 3603. Physical Chemistry/Thermodynamics** 3 (3-0)  
Prerequisites: Chemistry 1242, 1243; Mathematics 1733; Physics 1624 and 2644 or consent of instructor.  
Classical and statistical thermodynamics, kinetic molecular theory and chemical kinetics.
- 3612. Advanced Integrated Laboratory** 2 (0-6)  
Prerequisite: Chemistry 3603 (may be concurrent).  
Integrated physical, inorganic and advanced analytical laboratory practice. Laboratory fee: \$5.00.
- 3703. Physical Chemistry** 3 (3-0)  
Prerequisites: Chemistry 3603; Mathematics 2533 (may be concurrent).  
Atomic and molecular structure, experimental physical methods, electrochemistry and theory of reaction rates.
- 3712. Advanced Integrated Laboratory** 2 (0-6)  
Prerequisites: Chemistry 3402, 3403, 3612 (may be concurrent).  
Integrated physical, inorganic and advanced analytical laboratory practice. Laboratory fee: \$5.00.
- 4000. Seminar Attendance**  
Discussions of current topics of interest in chemistry conducted by students and faculty.
- 4001. Seminar** 1 semester hour  
Prerequisite: Chemistry 4000.  
Participation in seminar discussions.

4131. **Advanced Organic Chemistry Laboratory** 1 (0-4)  
Prerequisite: Chemistry 3503.  
Advanced organic laboratory techniques and introduction to organic research. Laboratory fee: \$5.00.
4133. **Advanced Organic Chemistry** 3 (3-0)  
Prerequisite: Chemistry 3503.  
Reaction mechanisms, structure elucidation, stereoisomerism, conformational analysis.
4243. **Biochemistry** 3 (3-0)  
Prerequisites: Chemistry 3503 and consent of instructor.  
The chemistry of life processes.
4303. **Advanced Inorganic Chemistry** 3 (3-0)  
Prerequisite: Chemistry 3703 (may be concurrent).  
Structure of coordination compounds, reaction mechanisms and application of thermodynamics to inorganic systems.
4403. **Advanced Analytical Chemistry** 3 (3-0)  
Prerequisites: Chemistry 3402, 3403, 3703 (may be concurrent) or consent of instructor.  
Advanced survey of principles and application of the most current analytical techniques.
4603. **Advanced Physical Chemistry** 3 (3-0)  
Prerequisites: Chemistry 3703; Mathematics 3433 or consent of instructor.  
Fundamentals of quantum mechanics with application to chemical problems.
4900. **Research Orientation**  
An introduction to research topics and methods.
- 4911, 4922, 4933. **Special Problems in Chemistry** 1, 2, 3, semester hours  
Prerequisite: Chemistry 4900. See page 24.  
Directed chemical research in problems of interest to the student. Minimum of 54 hours of laboratory work per semester hour credit. Laboratory fee: \$5.00 per semester hour.
4943. **Chemical Topics** 3 (3-0)  
Prerequisites: Consent of instructor and junior standing.  
Advanced topics in chemistry selected according to interests and needs of students.

## DEPARTMENT OF GEOLOGICAL SCIENCES

**Jackie L. Watkins, Chairman** (115 Science Building)  
Professor: Watkins  
Instructor: Maw

Programs of study leading to the degree of Bachelor of Science with a major in geology are as follows:

- A. Physical Geology option
- B. Paleontology-Stratigraphy option
- C. Environmental Science option

**General** (see page 31)

**Major** (all options)

Geology 1133, 1233, 2134, 2233, 2332, 3334, 3534, 3633, six additional advanced hours and an approved six-hour field course

**Minor**

Option A\*

Interdisciplinary minor: Mathematics 1533, 1633, 1733, 2533 and nine advanced hours selected from Biology 3833, Chemistry 3603, 3703 or Mathematics 3833

Option B\*

Biology 1144, 1344, 3643 and nine additional hours in biology of which three must be advanced

Option C\*

Chemistry 1142, 1143, 1242, 1243, 2302, 2303, 3502, 3503, 4243

**General Requirements** (all options, see page 247)

**Additional General Requirements** (all options, see page 247)

Specific courses for Item 4: Foreign Languages 1133, 1233; Engineering Drawing 1133, 1233

**Departmental Requirements**

All courses listed below which are not included in the minor or in Additional General Requirements:

All options: Chemistry 1142, 1143, 1242, 1243; Mathematics 1533, 1633, 1733; Physics 1624, 2644; Statistics 3573

Option C (additional): Biology 1144, 1344, 3833; Geology 3023

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\*Other minors may be chosen with consent of department chairman.

## **REQUIREMENTS FOR A MINOR IN GEOLOGY** (21 semester hours)

Geology 1133, 1233, 2134, 2233, 2332, plus six semester hours

## **COURSES IN GEOLOGY**

### **1003. Earth Science**

3 (2-2)

An integration of basic concepts and data from geology, physical geography, meteorology, geophysics, oceanography, soil science and astronomy, emphasizing the interrelationships among these fields concerning man's physical environment. Designed to fit the needs of students majoring in liberal arts, business, education and humanities. Laboratory fee: \$5.00.

### **1133. Physical Geology**

3 (2-2)

Elements of earth science including the study of earth materials: interpretation of geologic evidence and study of geologic processes. Laboratory fee: \$5.00.

**1233. Historical Geology** 3 (2-2)

Geologic history and the evolution of the earth, including the life histories of plants and animals. Laboratory fee: \$5.00.

**2134. Mineralogy, Crystallography, and Crystal Chemistry** 4 (3-3)

Prerequisites: Geology 1133. Credit for or registration in Chemistry 1142, 1143, 1242, 1243 and Mathematics 1633.

An integrated study of descriptive and determinative mineralogy, crystal chemistry, and optical crystallography. Laboratory fee: \$5.00.

**2233. Petrology** 3 (3-0)

Prerequisites: Geology 2134, Mathematics 1733.

A comprehensive study of the rock-forming processes and an interpretation and synthesis of the existing field, experimental, and thermodynamic data.

**2332. Petrology and Petrography Laboratory** 2 (0-4)

Prerequisite: Geology 2134.

Introduction to hand-specimen and thin-section petrography. Laboratory fee: \$5.00.

**3023. Environmental Science** 3 (2-2)

Prerequisite: One year of college level science is recommended.

A study of the earth as a habitat; conservation of resources, land-use planning and pollution problems arising from intensive use of the land by increasing numbers of people. Laboratory fee: \$5.00.

**3133. Oceanography and Meteorology** 3 (2-2)

Prerequisite: Consent of the department chairman.

An introduction to the earth's fluid environment; physical, chemical, biological and geological oceanography; air-sea interaction. Laboratory fee: \$5.00.

**3233. Physical Geochemistry** 3 (3-0)

Prerequisite: Geology 2233.

A study of the geological, chemical, and thermodynamical processes responsible for the observed distribution and abundance of the elements. Geochemical cycles presently operating in the earth's atmosphere, hydrosphere and lithosphere.

**3334 Structural Geology** 4 (3-2)

Prerequisites: Geology 2233. Credit for or registration in Physics 1144 or 1624. Engineering Drawing 1233.

Geological structures with emphasis on graphical and mathematical interpretation; physics of deformation of earth's crust; introduction to global tectonics. Laboratory fee: \$5.00.

**3534 Invertebrate Paleontology** 4 (3-2)

Prerequisites: Geology 1133, 1233.

Invertebrate phyla, emphasizing North American index fossils. Laboratory fee: \$5.00.

**3633. Stratigraphy** 3 (3-0)

Prerequisite: Geology 3534.

Interpretation of the sequences of events in the history of the earth. Integration of the principles of sedimentation and stratigraphy.

**4006. Field Geology** 6 semester hours

Prerequisite: Geology 3334 or consent of instructor.

Field camp emphasizing preparation of geologic maps and reports on selected regions. Laboratory fee: \$5.00. (Total costs to the student depends on site chosen and will be published for each camp.)

**4333. Advanced Topics in Geology** 3 (3-0)

Prerequisite: Consent of instructor.

Lectures, discussions, reading and/or laboratory work on advanced topics in geology. Content may vary from year to year.

**4634. Sedimentation** 4 (3-2)

Prerequisite: Geology 3233 or Chemistry 3603; Mathematics 3573 recommended.

Processes and agents that form, transport, and deposit sediments and the interpretation of the resulting rocks. Introduction to methods of analysis and graphical representation of data. Laboratory fee: \$5.00.

**4734. Geomorphology** 4 (3-2)

Prerequisite: Geology 2233. Geology 3334 recommended.

Advanced dynamic geology. The course includes a comprehensive review of the geological processes and their effects on the features of the earth's surface. Laboratory fee: \$5.00.

**4911, 4912, 4913. Special Problems in Geology** 1-3 semester hours

Prerequisites: Senior classification and consent of faculty adviser.

Directed field and laboratory research in problems of interest to the student. A minimum of 54 hours of laboratory and/or field work per semester hour of credit.

**COURSES IN GEOGRAPHY\*****3003. Geography of the World** 3 (3-0)

Regional, social, and economic characteristics of the geography of the world.

**3013. Geography of North America** 3 (3-0)

Physiographic and natural resources characteristic of North America with emphasis on the United States.

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\*Geography courses may not be used to satisfy science requirements.



**DEPARTMENT OF MATHEMATICAL SCIENCES****Louie C. Huffman, Chairman** (116B Science Building)

Professors: Huffman, Meux, Williams

Assistant Professors: Brackeen, Hinds, Lifsey, Rowell,  
Strain, Warndorf

The requirements for Bachelor's degrees with a major in mathematics are as follows:

- A. Professional option (B.S.)
- B. Computing Science option (B.S.)
- C. Professional option (B.A.) (see page 34)  
(Must include Computing Science 2003)

**General** (Options A, B, see page 31)**Major**

Option A and C

Mathematics 1533, 1633, 1733, 2533, 3293, 3433, 3533, 3833; either 4733 and 4833 or 4133 and 4143; and six additional advanced hours

Option B

Mathematics 1533, 1633, 1733, 2533, 3293, 3433, 4133, 4143; 12 additional advanced hours exclusive of Mathematics 3533 and 3833

**Minor**

Option A and C

Consult adviser for approved minor (except Computer Science) and specific courses

Option B

Computer Science 2003, 2103, 3103, 3533, 3833, 4103

**General Requirements** (all options, see page 247)**Additional General Requirements** (Options A, B, see page 247)

Specific courses for Item 4:

Option A, B: Six hours in one laboratory science which is not the minor field

Six hours in business administration and/or economics OR  
Foreign Languages 1133 and 1233 OR Engineering Drawing  
1133 and 1233

**Departmental Requirements**

Statistics 3573, all options.

Options A, B: Six hours in each of two laboratory sciences. This requirement may be satisfied in the minor and/or Additional General Requirements.

# **CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN MATHEMATICS**

## **OPTION A**

### **FRESHMAN YEAR**

| <b>Fall Semester</b>            | <b>Sem. Hrs.</b> | <b>Spring Semester</b>          | <b>Sem. Hrs.</b> |
|---------------------------------|------------------|---------------------------------|------------------|
| 1113. English .....             | 3                | 1123. English .....             | 3                |
| 1133. History .....             | 3                | 1233. History .....             | 3                |
| 1133. Engineering Drawing ..... | 3                | 1233. Engineering Drawing ..... | 3                |
| 1533. Mathematics .....         | 3                | 1633. Mathematics .....         | 3                |
| P.E. ....                       | 1                | P.E. ....                       | 1                |
| Science .....                   | 3-4              | Science .....                   | 3-4              |
|                                 | <hr/>            |                                 | <hr/>            |
|                                 | 16-17            |                                 | 16-17            |

### **SOPHOMORE YEAR**

| <b>Fall Semester</b>          |       | <b>Spring Semester</b>        |       |
|-------------------------------|-------|-------------------------------|-------|
| 1733. Mathematics .....       | 3     | 2533. Mathematics .....       | 3     |
| 1333. Political Science ..... | 3     | 1433. Political Science ..... | 3     |
| 2003. Computer Science .....  | 3     | 3573. Statistics .....        | 3     |
| English literature .....      | 3     | Elective .....                | 3     |
| Minor .....                   | 3-4   | Minor .....                   | 3-4   |
| P.E. ....                     | 1     | P.E. ....                     | 1     |
|                               | <hr/> |                               | <hr/> |
|                               | 16-17 |                               | 16-17 |

### **JUNIOR YEAR**

| <b>Fall Semester</b>    |       | <b>Spring Semester</b>  |       |
|-------------------------|-------|-------------------------|-------|
| 3433. Mathematics ..... | 3     | 3293. Mathematics ..... | 3     |
| 3833. Mathematics ..... | 3     | 3533. Mathematics ..... | 3     |
| Minor .....             | 3     | Minor .....             | 3     |
| Electives .....         | 6     | Electives .....         | 6     |
|                         | <hr/> |                         | <hr/> |
|                         | 15    |                         | 15    |

### **SENIOR YEAR**

| <b>Fall Semester</b>       |       | <b>Spring Semester</b>     |       |
|----------------------------|-------|----------------------------|-------|
| 4733. or                   |       | 4833. or                   |       |
| 4133. Mathematics .....    | 3     | 4143. Mathematics .....    | 3     |
| Mathematics (senior) ..... | 3     | Mathematics (senior) ..... | 3     |
| Minor .....                | 3     | Minor .....                | 3     |
| Electives .....            | 6     | Electives .....            | 6     |
|                            | <hr/> |                            | <hr/> |
|                            | 15    |                            | 15    |

## **OPTION B**

### **FRESHMAN YEAR**

| <b>Fall Semester</b>            | <b>Sem. Hrs.</b> | <b>Spring Semester</b>          | <b>Sem. Hrs.</b> |
|---------------------------------|------------------|---------------------------------|------------------|
| 1113. English .....             | 3                | 1123. English .....             | 3                |
| 1133. History .....             | 3                | 1233. History .....             | 3                |
| 1133. Engineering Drawing ..... | 3                | 1233. Engineering Drawing ..... | 3                |
| 1533. Mathematics .....         | 3                | 1633. Mathematics .....         | 3                |
| P.E. ....                       | 1                | P.E. ....                       | 1                |
| Science .....                   | 3-4              | Science .....                   | 3-4              |
|                                 | <hr/>            |                                 | <hr/>            |
|                                 | 16-17            |                                 | 16-17            |

SOPHOMORE YEAR

|                               |       |                               |       |
|-------------------------------|-------|-------------------------------|-------|
| 1733. Mathematics .....       | 3     | 2533. Mathematics .....       | 3     |
| 1333. Political Science ..... | 3     | 1433. Political Science ..... | 3     |
| 2003. Computer Science .....  | 3     | 2013. Computer Science .....  | 3     |
| English literature .....      | 3     | 3573. Statistics .....        | 3     |
| P.E. ....                     | 1     | P.E. ....                     | 1     |
| Science .....                 | 3-4   | Science .....                 | 3-4   |
|                               | <hr/> |                               | <hr/> |
|                               | 16-17 |                               | 16-17 |

JUNIOR YEAR

|                              |       |                              |       |
|------------------------------|-------|------------------------------|-------|
| 3433. Mathematics .....      | 3     | 3293. Mathematics .....      | 3     |
| 4133. Mathematics .....      | 3     | 4143. Mathematics .....      | 3     |
| 3833. Computer Science ..... | 3     | 3533. Computer Science ..... | 3     |
| Minor .....                  | 3     | Minor .....                  | 3     |
| Elective .....               | 3     | Elective .....               | 3     |
|                              | <hr/> |                              | <hr/> |
|                              | 15    |                              | 15    |

SENIOR YEAR

|                              |       |                              |       |
|------------------------------|-------|------------------------------|-------|
| Advanced mathematics .....   | 6     | Advanced mathematics .....   | 6     |
| 3103. Computer Science ..... | 3     | 4103. Computer Science ..... | 3     |
| Minor .....                  | 6     | Minor .....                  | 6     |
|                              | <hr/> |                              | <hr/> |
|                              | 15    |                              | 15    |

CURRICULUM LEADING TO THE DEGREE OF  
BACHELOR OF ARTS IN MATHEMATICS

OPTION C

FRESHMAN YEAR

| First Semester                  | Sem. Hrs. | Second Semester                 | Sem. Hrs. |
|---------------------------------|-----------|---------------------------------|-----------|
| 1113. English .....             | 3         | 1123. English .....             | 3         |
| 1133. History .....             | 3         | 1233. History .....             | 3         |
| 1133. Engineering Drawing ..... | 3         | 1233. Engineering Drawing ..... | 3         |
| 1133. Foreign Language .....    | 3         | 1233. Foreign Language .....    | 3         |
| 1533. Mathematics .....         | 3         | 1633. Mathematics .....         | 3         |
| P.E. ....                       | 1         | P.E. ....                       | 1         |
|                                 | <hr/>     |                                 | <hr/>     |
|                                 | 16        |                                 | 16        |

SOPHOMORE YEAR

|                               |       |                               |       |
|-------------------------------|-------|-------------------------------|-------|
| 2003. Computer Science .....  | 3     | Economics .....               | 3     |
| English literature .....      | 3     | English literature .....      | 3     |
| 2133. Foreign Language .....  | 3     | 2233. Foreign Language .....  | 3     |
| 1733. Mathematics .....       | 3     | 2533. Mathematics .....       | 3     |
| 1333. Political Science ..... | 3     | 1433. Political Science ..... | 3     |
| P.E. ....                     | 1     | P.E. ....                     | 1     |
|                               | <hr/> |                               | <hr/> |
|                               | 16    |                               | 16    |

JUNIOR YEAR

|                         |       |                         |       |
|-------------------------|-------|-------------------------|-------|
| 3433. Mathematics ..... | 3     | 3293. Mathematics ..... | 3     |
| 3833. Mathematics ..... | 3     | 3533. Mathematics ..... | 3     |
| Geography .....         | 3     | 3573. Statistics .....  | 3     |
| Minor .....             | 6     | Minor .....             | 6     |
|                         | <hr/> |                         | <hr/> |
|                         | 15    |                         | 15    |

## SENIOR YEAR

|       |                            |       |                            |
|-------|----------------------------|-------|----------------------------|
| 4133. | or                         | 4143. | or                         |
| 4733. | Mathematics .....          | 4833. | Mathematics .....          |
|       | Mathematics (senior) ..... |       | Mathematics (senior) ..... |
|       | Minor .....                |       | Minor .....                |
|       | Elective .....             |       | Elective .....             |
|       | 3                          |       | 3                          |
|       | 3                          |       | 3                          |
|       | 6                          |       | 6                          |
|       | 3                          |       | 3                          |
|       | <hr/>                      |       | <hr/>                      |
|       | 15                         |       | 15                         |

**REQUIREMENTS FOR A MINOR IN MATHEMATICS** (18 semester hours)

Mathematics 1533, 1633, 1733, 2533; and six advanced hours

**REQUIREMENTS FOR A MINOR IN COMPUTER SCIENCE** (18 semester hours)

Computer Science 2003, 2013, 3103, 3533, 3833, 4103

**GRADUATE PROGRAMS**

The requirements for a degree of Master of Science with a major in the field of mathematics are as follows:

**General** (see page 306)

**Departmental****Major**

- Option 1. 36 semester hours of approved courses in mathematics at the 4000 level or above.
- Option 2. 24 semester hours of approved courses in mathematics at the 4000 level or above, with at least 15 semester hours at the 5000 level or above. An approved minor of 12 semester hours.
- Option 3. Same as Option 2, except a six-hour thesis may be substituted for the 12-hour minor

**Minor**

A minimum of 12 semester hours of approved courses.

**ADVANCED PLACEMENT PROGRAM**

A maximum of six hours of credit in mathematics may be obtained by advanced placement examination. These examinations are given in the areas of algebra, trigonometry, analytical geometry, and calculus. For more information, students may contact the Mathematics Department chairman.

**COURSES IN MATHEMATICS****FOR UNDERGRADUATES**

1033. **Structure of the Number System I** 3 (3-0)

For elementary education majors only.

The language of mathematics; sets and relations; the counting numbers; division and rational numbers, decimal representation and the real number system.

**1043. Structure of the Number System II**

3 (3-0)

For elementary education majors only.

Prerequisite: Mathematics 1033.

Number bases; subtraction and the integers; elementary theory of numbers; algebraic structures, geometry and measurement of geometric sets.

**1103. Mathematics for Human Affairs**

3 (3-0)

Mathematics 1103 and 1203 may not both be taken for credit.

Study of those mathematical procedures and techniques required to provide enough mathematical literacy for adequate participation in the daily life of present society. Primarily for non-business, non-mathematics majors.

**1203. Finite Mathematics**

3 (3-0)

Mathematics 1103 and 1203 may not both be taken for credit.

Sets, relations, and functional representation; systems of linear equations and inequalities; vectors and matrices; mathematics of finance.

**1213. Applications of College Mathematics**

3 (3-0)

Prerequisite: Mathematics 1103 or 1203.

Concepts of probability; random variables and distribution functions; differential calculus; integral calculus.

**1233. College Algebra**

3 (3-0)

Prerequisite: One and one-half years of high school algebra or consent of the department chairman.

Foundations of mathematics; structure of the number system; functions, relations, and equations; linear algebra; combinatorial analysis.

**1433. Plane Trigonometry**

3 (3-0)

Prerequisite: One and one-half years of high school algebra or consent of department chairman.

Trigonometric functions, identities and equations; logarithms, complex numbers.

**1533. Analytic Geometry**

3 (3-0)

Prerequisites: Mathematics 1233 or two years of high school algebra, and Mathematics 1433 or one-third year of high school trigonometry.

Straight lines, conic sections, polar coordinates, vectors, analytic geometry of space.

**1633. Calculus I**

3 (3-0)

Prerequisite: Mathematics 1533.

Differentiation of functions of one variable with applications in graphing, maxima-minima, rates, and motion.

**1733. Calculus II**

3 (3-0)

Prerequisite: Mathematics 1633.

The mean value theorem, indeterminate forms, integration of functions of one variable with applications.

**2533. Calculus III**

3 (3-0)

Prerequisite: Mathematics 1733.

Infinite series, partial differentiation with applications, multiple integration with applications.



**Note:** All 3000-4000 level courses require a minimum of nine semester hours as prerequisite, including specific prerequisites.

**3133. Foundations of Geometry** 3 (3-0)

Prerequisite: Mathematics 3293.

Elementary geometry from an advanced point of view, the reformulation of basic concepts in terms of modern mathematics and other modern concepts of geometry.

**3293. Algebraic Structures** 3 (3-0)

Prerequisite: Mathematics 1233 or consent of the department chairman.

Introduction to algebraic structures; groups; rings; fields; introduction to vector spaces.

**3433. Differential Equations** 3 (3-0)

Prerequisite: Mathematics 2533.

Introduction to the theory of ordinary differential equations; first order equations; linear equations of higher order; series solutions.

**3533. Numerical Analysis** 3 (3-0)

Prerequisites: Computer Science 2003; Mathematics 2533.

Analyzing, flow charting and writing of programs to find roots of equations, numerical differentiation and integration, ordinary and partial differential equations.

**3833. Matrix Methods** 3 (3-0)

Prerequisite: Computer Science 2003, Mathematics 1633 or consent of department chairman.

Transformations of matrices and computer applications, to include linear systems, eigenvalue problems and linear programming.

**FOR UNDERGRADUATES AND GRADUATES**

**4133. Mathematical Statistics I** 3 (3-0)

Prerequisite: Mathematics 2533.

Probability theory; derivation of common statistical formulas; distribution functions; expectation.

**4143. Mathematical Statistics II** 3 (3-0)

Prerequisite: Mathematics 4133.

A continuation of Mathematics 4133.

**4213. Difference Equations** 3 (3-0)

Prerequisite: Mathematics 1633.

Finite differences, linear operators, recurrence relations, generating functions, difference equations, application.

**4453. Theory of Numbers** 3 (3-0)

Prerequisite: 12 hours of mathematics.

Divisors and prime numbers; congruences; primitive roots; quadratic residues; continued fractions.

**4573. Complex Analysis** 3 (3-0)

Prerequisite: Mathematics 2533.

Complex numbers, analytic functions, elementary functions, integrals, power series, residues and poles.

**4583. Vector Analysis**

3 (3-0)

Prerequisite: Mathematics 2533.

The fundamental operations, differentiation theory, integration theory, and application of vectors.

**4593. Special Functions and Boundary Value Problem**

3 (3-0)

Prerequisite: Mathematics 3433.

Curvilinear coordinate systems; vector calculus; theorems of Stokes and Gauss; power series; Bessel, Gamma and Legendre functions; elementary Fourier series and boundary value problems.

**4733. Advanced Calculus I**

3 (3-0)

Prerequisites: Mathematics 2533, 3293.

The calculus of one variable; vector calculus of several variables; the theory of convergence.

**4833. Advanced Calculus II**

3 (3-0)

Prerequisite: Mathematics 4733.

A continuation of Mathematics 4733.

**4933. Topics**

3 (3-0)

Prerequisite: Consent of the instructor.

Selected topics from advanced mathematics. May be repeated for credit with consent of department chairman.

**4991, 4992, 4993. Special Problems**

1-3 semester hours

Prerequisite: Consent of department chairman (see page 24).

Directed research in mathematics.

**FOR GRADUATES****5001. Teaching College Mathematics**

1 (1-0)

Prerequisite: Graduate standing in Mathematics.

Required of all graduate teaching assistants in mathematics during first semester in residence.

An overview of problems and effective practices in the teaching of freshman mathematics. Occasional demonstration sessions. May be repeated twice for credit.

**5133. Mathematical Statistics I**

3 (3-0)

Prerequisite: Mathematics 2533.

Probability theory; derivation of common statistical formulas; distribution functions; expectation.

**5143. Mathematical Statistics II**

3 (3-0)

Prerequisite: Mathematics 4133 or 5133.

A continuation of Mathematics 4133 or 5133.

**5303. Topics in Geometry**

3 (3-0)

Prerequisite: Consent of department chairman.

May be repeated once for credit as specific topics vary.

**5313. Topics in Analysis**

3 (3-0)

Prerequisite: Consent of department chairman.

May be repeated once for credit as specific topics vary.

5323. **Topics in Topology** 3 (3-0)  
 Prerequisite: Consent of department chairman.  
 May be repeated once for credit as specific topics vary.
5333. **Topics in Algebra** 3 (3-0)  
 Prerequisite: Consent of department chairman.  
 May be repeated once for credit as specific topics vary.
5343. **Topics in Applied Mathematics** 3 (3-0)  
 Prerequisite: Consent of department chairman.  
 May be repeated once for credit as specific topics vary.
5353. **Topics in Discrete Mathematics** 3 (3-0)  
 Prerequisite: Consent of department chairman.  
 May be repeated once for credit as specific topics vary.
5363. **Topics in Mathematics Education** 3 (3-0)  
 Prerequisite: Consent of department chairman.  
 May be repeated once for credit as specific topics vary.
5373. **Topics in Statistics** 3 (3-0)  
 Prerequisite: Consent of department chairman.  
 May be repeated once for credit as specific topics vary.
5383. **Topics in Computer Science** 3 (3-0)  
 Prerequisite: Consent of department chairman.  
 May be repeated once for credit as specific topics vary.
5393. **Topics in History and Foundations of Mathematics** 3 (3-0)  
 Prerequisite: Consent of department chairman.  
 May be repeated once for credit as specific topics vary.
5453. **Theory of Numbers** 3 (3-0)  
 Prerequisite: 12 hours of mathematics.  
 Divisors and prime numbers; congruences; primitive roots; quadratic residues; continued fractions.
5593. **Special Functions and Boundary Value Problem** 3 (3-0)  
 Prerequisite: Mathematics 3433.  
 Curvilinear coordinate systems; vector calculus; theorems of Stokes and Gauss; power series; Bessel, Gamma and Legendre functions; elementary Fourier series and boundary value problems.
- 5991, 5992, 5993. **Special Problems** 1-3 semester hours  
 Prerequisite: Consent of the instructor.  
 Directed research in mathematics.
- 6983, 6993. **Thesis** 6 semester hours

## COURSES IN COMPUTER SCIENCE

2003. **Elementary Scientific Computing Techniques** 3 (3-0)  
 Fortran IV programming. Techniques of flow charting, writing and executing programs in elementary scientific applications. Fee: \$5.00.

2013. **Assembler Language** 3 (3-0)  
Basic ASSEMBLER Language. Emphasis is placed on writing and execution of programs using bit manipulation and data conversion, and ASSEMBLER subprograms for Fortran programs.
3103. **Introduction to Data Structures** 3 (3-0)  
Prerequisite: Computer Science 2013 or Business Administration 1114.  
Stacks, queues, linked lists, trees, searching, sorting and merging. Writing and executing programs to utilize these structures and operations. Fee: \$5.00.
3533. **Numerical Analysis** 3 (3-0)  
Prerequisites: Computer Science 2003; Mathematics 2533.  
Analyzing, flow charting and writing of programs to find roots of equations, numerical differentiation and integration, ordinary and partial differential equations.
3833. **Matrix Methods** 3 (3-0)  
Prerequisites: Computer Science 2003, Mathematics 1633 or consent of department chairman.  
Transformations of matrices and computer applications, to include linear systems, eigenvalue problems and linear programming.
4103. **Systems Programming** 3 (3-0)  
Prerequisite: Computer Science 3103.  
Introduction to operating systems, batch systems, input-output systems, interrupt handling and file management systems. Use of pre-packaged programs.
- 4991, 4992, 4993. **Special Problems** 1-3 semester hours  
Prerequisite: Consent of department chairman.  
Directed research in computing science.

## COURSES IN ENGINEERING DRAWING

1133. **Engineering Drawing** 3 (2-4)  
Essentials of drafting; use of instruments, lettering, geometric construction, orthographic projections, sections, pictorial drawing, working drawings, tracing, and blueprinting.
1233. **Descriptive Geometry** 3 (2-4)  
Prerequisite: Engineering Drawing 1133 or consent of the instructor.  
The theory of engineering drawing which gives the geometric explanation and solution of drawing problems and provides training in visualization. Includes point, line, auxiliary views, intersections, developments, mining problems, contouring, and perspective problems.
1333. **Introduction to Architectural Drawing** 3 (2-4)  
Prerequisite: Engineering Drawing 1133.  
Practical architectural drafting; designing with regard to cost. Equipment and materials used in house building and landscape designing.
2133. **Machine Drafting** 3 (2-4)  
Prerequisite: Engineering Drawing 1133.  
Recommended for students who expect to become draftsmen or architects. All types of drafting reproduction; industrial plant machinery design; drafting room procedures.

**COURSES IN STATISTICS**

- 3573. Probability and Statistics** 3 (3-0)  
Prerequisite: Mathematics 1103, 1203 or 1233.  
Descriptive analysis, probability, variability, inferences, chi square, analysis of variance, correlation and regression, nonparametric statistics.
- 4133. Mathematical Statistics I** 3 (3-0)  
Prerequisite: Mathematics 2533.  
Probability theory; derivation of common statistical formulas; distribution functions; expectation.
- 4143. Mathematical Statistics II** 3 (3-0)  
Prerequisite: Mathematics 4133.  
A continuation of Mathematics 4133.
- 4991, 4992, 4993. Special Problems** 1-3 semester hours  
Prerequisite: Consent of department chairman.  
Directed research in statistics.

**DEPARTMENT OF NURSING**

**Ruth McFarland, Chairman** (Bea Wood Hall)

Associate Professor: McFarland

Assistant Professors: Bowles, Inman

Instructors: Bell, Church, Cunningham, Milam, Prince, Simons,  
Zolnerowich

The Department of Nursing offers a curriculum leading to an Associate of Science in Nursing degree. After completing all degree requirements, graduates are then eligible to take the State Board Examination for licensure as Registered Nurses (R.N.) in Texas.

The Department of Nursing is fully accredited by the Texas Board of Nurse Examiners and the National League for Nursing Department of Associate Degree Programs. The department is a member agency of the National League for Nursing Council of Associate Degree Nursing Programs.

**Admission Policies**

To insure consideration for admission all applications and entrance examinations should be completed by February 1. Applicants will be considered for admission on an individual basis. Admission requirements for the Department of Nursing include:

1. High school education or its equivalent. It is suggested that the following high school courses be taken before entering a school of nursing; biology, chemistry, and algebra (2 units).

2. Admission to Midwestern State University. Application form can be obtained from Registrar.



3. Application for admission to the Department of Nursing. Form can be obtained from the Department of Nursing.

4. Acceptable ACT or SAT scores. All applicants must take either the ACT or SAT.

5. Pre-entrance testing if recommended by the Department of Nursing.

6. Personal interview if recommended by the Department of Nursing.

7. Satisfactory health record filed with the University Health Service, within the past year.

Students are admitted to the associate degree nursing program annually in June at the beginning of the first summer term, and must begin the required two calendar year enrollment at that time.

Enrollment time of transfer students from other associate degree nursing programs will be determined on an individual basis; however, transfer students must complete in residence a minimum of two academic semesters as a nursing student at Midwestern State University to be eligible for graduation.

### Challenge Examination

Information regarding challenge examinations may be secured by contacting the department chairman.

### Testing

See page 40 for testing fees.

### REQUIREMENTS FOR THE DEGREE OF ASSOCIATE OF SCIENCE IN NURSING

#### General Academic (34 semester hours)

Biology 1133, 1233, 2144

Chemistry 1103, 1203

Education 3133

English 1113, 1123

Political Science 1333 or 1433

Psychology 1103

Sociology 1133

#### Major (43 semester hours)

Nursing 1103, 1207, 1307, 2407, 2504, 2602, 2707 and 2806.

#### Minor (No minor required)

**Note:** Students will be advised in the required sequence of the above courses.

#### Other Requirements

A student must earn a grade of C or above in each required nursing course. A student who fails to maintain a grade of C in any of the required nursing courses may repeat the course once.

A student must complete all clinical nursing courses within a four-year-period of time beginning with initial enrollment in Nursing II.

**COURSES IN NURSING****1103. Nursing I Introduction to Nursing** 3 (3-0)

An introduction to the process of nursing, the role of the student nurse and the role of the nurse in the health care delivery system.

**1207. Nursing II Fundamentals of Nursing** 7 (3-9)

Prerequisites: Nursing 1103; Biology 1133, 1233.

An introduction to problems commonly encountered in achieving maximum health potential throughout the life span and the skills and concepts of nursing basic to preventing, eliminating and alleviating these problems. In hospital and campus laboratory the student is given an opportunity to achieve skill in nursing processes commonly encountered in the daily care of hospitalized patients. Laboratory fee: \$8.00.

**1307. Nursing III Medical-Surgical Nursing** 7 (3-9)

Prerequisite: Nursing 1207.

A continuation of Nursing II. The health problems discussed in this course are more complex than those in Nursing II and are basic to the care of many patients. Problems included are related to Homeostasis, pre and post operative periods, oncology, and the nervous system. Laboratory fee: \$8.00.

**2407. Nursing IV Medical-Surgical Nursing** 7 (3-9)

Prerequisites: Nursing 1307; Education 3133.

A course built on previous courses designed to increase the students knowledge and ability to apply nursing processes to the care of patients of all ages, who have commonly recurring medical-surgical conditions related to the endocrine, respiratory, gastro-intestinal and cardiovascular systems. Emphasis will be placed on integrating previously learned processes and knowledge in executing a more highly skilled, more self-directed care of individual patients. Laboratory fee: \$8.00.

**2504. Nursing V Obstetric Nursing** 4 (3-9)

Prerequisite: Nursing 1307.

A family centered approach to problems in achieving maximum health potential during childbearing and neonatal life. Laboratory fee: \$8.00.

**2602. Nursing VI Trends in Nursing** 2 (2-0)

A survey of current trends in nursing with emphasis on the role of the graduate as a member of the health care team.

**2707. Nursing VII Medical-Surgical Nursing** 7 (3-9)

Prerequisite: Nursing 2407.

A continuation of Nursing IV including the care of the patients who have problems related to musculoskeletal, renal, and reproductive systems. Emphasis is placed on concepts and processes involved in managing the care of a group of patients. Laboratory fee: \$8.00.

**2806. Nursing VIII Psychiatric Nursing** 6 (2-9)

Prerequisite: Nursing 2407.

A course in utilization of processes and concepts to prevent, eliminate, and alleviate problems in psychological patterns of behavior demonstrated by emotionally disturbed persons of all ages. Clinical and group discussion provides opportunities for students to increase their ability to relate therapeutically with patients and families and to develop greater understanding of self. Laboratory fee: \$8.00.

**DEPARTMENT OF PHYSICS****Chiold D. Epp, Chairman** (108B Science Building)

Professor: Holverson

Associate Professor: Epp

Assistant Professors: Kisner, Sims

Programs of study leading to the degree of Bachelor of Science with a major in physics are as follows:

- A. Professional and pre-engineering option
- B. Geophysics option (see page 247)
- C. Teacher certification option (see Department of Physics Chairman)
- D. Interdisciplinary option: biophysics, pre-medical, medical physics related emphasis
- E. Interdisciplinary option: business related emphasis
- F. Interdisciplinary option: computer science emphasis

**General** (all options, see page 31)**Major** (36 semester hours)

Option A

Physics 1624, 2644, 3034, 3144, 3154, 3243, plus two courses chosen from 4443, 4453, 4543 and seven additional advanced hours.

Option D

Physics 1624, 2644, 3034, 3144, 3154, 3243, 3433 and ten additional advanced hours.

Option E, F

Physics 1624, 2644, 3034, 3144, 3243 and 17 additional advanced hours.

**Minor**

Option A, E

Consult advisor for approved minor and specific courses.

Option D

Biology 1144, 1344 and 12 additional hours in biology of which six must be advanced.

Option F

Computer Science 2003, 2013, 3103, 3533, 3833, 4103.

**General Requirements** (all options, see page 247)**Additional General Requirements** (all options, see page 247)

Specific courses for item 4: Chemistry 1142, 1143, 1242, 1243 if chemistry is not the minor; otherwise Mathematics 1533, 1633. Six hours from business administration or engineering drawing or foreign languages.

**Departmental Requirements**

Statistics 3573, all options.

**Options A, E, F**

All courses listed below which are not included in the minor or Additional General Requirements.

Chemistry 1142, 1143, 1242, 1243

Mathematics 1533, 1633, 1733, 2533, 3433

**Option D**

All courses listed below which are not included in the minor or Additional General Requirements.

Chemistry 1142, 1143, 1242, 1243, 2302, 2303, 3502, 3503

Mathematics 1533, 1633, 1733, 2533, 3433

**REQUIREMENTS FOR A MINOR IN PHYSICS**

Physics 1624, 2644, 3034, and seven additional semester hours of advanced courses

**COURSES IN PHYSICS****1003. Physical Science 3 (2-2)**

An introduction to the physical sciences designed to fit the needs of students majoring in liberal arts, business, education, the humanities and nursing. Lectures, films, demonstrations and laboratory work will be utilized. Laboratory fee: \$5.00.

**1144. General Physics 4 (3-2)**

Prerequisites: Mathematics 1233, 1433 or consent of the department chairman.

Mechanics, heat, and sound. The first part of a two semester course in classical physics designed for students in technology programs and non-science majors. Laboratory fee: \$5.00.

**1244. General Physics 4 (3-2)**

Prerequisites: Physics 1144; Mathematics 1233, 1433, or consent of the department chairman.

Electricity and magnetism, optics, and modern physics. The second part of a two-semester course in classical physics designed for students in technology programs and non-science majors. Laboratory fee: \$5.00.

**1533. Descriptive Astronomy 3 (2-2)**

A survey course in astronomy designed to meet the needs of students majoring in liberal arts, business and education. Lectures, films, demonstrations and laboratory work, including the use of the planetarium and telescopes, will be utilized. Laboratory fee: \$5.00.

**1624. Mechanics, Wave Motion and Heat 4 (3-3)**

Prerequisite: Credit or registration in Mathematics 1633.

The first part of a two-semester course in classical physics for students majoring in science. Laboratory fee: \$5.00.

**2644. Electricity and Magnetism, and Optics 4 (3-3)**

Prerequisites: Physics 1624; credit or registration in Mathematics 1733.

The second part of a two-semester course in classical physics for students majoring in science. Laboratory fee: \$5.00.

- 3034. Modern Physics** 4 (3-3)  
Prerequisites: Physics 2644; Mathematics 1733.  
Relativity, introductory aspects of quantum and atomic physics.
- 3124. Introductory Astronomy** 4 (3-3)  
Prerequisites: Physics 2644; Mathematics 1733.  
Lectures and laboratory work related to observational and theoretical astronomy including planetary, stellar and cosmological models. Laboratory fee: \$5.00.
- 3134. Optics** 4 (3-3)  
Prerequisites: Physics 2644; Mathematics 1733.  
Reflection and refraction at spherical surfaces, aberrations, optical instruments, photometry, wave motion, interference, diffraction, and polarization. Laboratory fee: \$5.00.
- 3144. Intermediate Electricity and Magnetism** 4 (3-3)  
Prerequisites: Physics 2644; credit or concurrent registration in Mathematics 3433.  
DC and AC circuit theory, electrodynamics, electrical instruments, and magnetic properties of materials. Laboratory fee: \$5.00.
- 3154. Electronics** 4 (3-3)  
Prerequisites: Physics 3144; Mathematics 3433.  
Introduction to basic electronic circuits and applications including vacuum tubes, transistors, and gaseous electronics. Laboratory fee: \$5.00.
- 3243. Mechanics and Properties of Matter** 3 (3-0)  
Prerequisites: Physics 2644; credit or registration in Mathematics 3433.  
Statics and dynamics of particles and systems of particles, central force systems, moving reference frames.
- 3433. Topics in Contemporary Physics** 3 (2-2)  
Prerequisites: Physics 2644; Mathematics 1733.  
Topics in contemporary physics to meet the needs of the students. May be repeated for credit by consent of the department chairman. Laboratory fee: \$5.00.
- 3603. Physical Chemistry/Thermodynamics** 3 (3-0)  
Prerequisites: Chemistry 1243; Mathematics 1733; Physics 2644.  
Thermodynamic systems, equations of state, first and second laws of thermodynamics and kinetic theory of gases.
- 4443. Introduction to Quantum Mechanics** 3 (3-0)  
Prerequisites: Physics 3034 or Chemistry 3603; credit or registration in Mathematics 3433.  
Wave-mechanical concepts, solutions of Schrodinger's equation, energy and momentum eigenvalue problem, perturbation theory and atomic structure.
- 4453. Electromagnetic Fields** 3 (3-0)  
Prerequisites: Physics 3144; Mathematics 3433.  
Electric and magnetic field theory with vector analysis treatment, introduction to Maxwell's equations, properties of dielectrics and magnetic materials.



**4543. Advanced Mechanics**

3 (3-0)

Prerequisites: Physics 3243; Mathematics 3433.

Lagrangian and Hamiltonian dynamics, rigid body dynamics, and coupled systems.

**4811, 4822, 4833. Theoretical Problems**

1-3 semester hours

Prerequisites: See page 24.

Directed theoretical physics research problems of interest to the student.

**4911, 4922, 4933. Experimental Problems**

1-3 semester hours

Prerequisites: See page 24.

Directed experimental physics research problems of interest to the student. Laboratory fee: \$5.00 per semester hour.

## DIVISION OF HEALTH SCIENCES

Anton R. Zembrod, *Interim Director*  
Bea Wood Hall, Room 215A

### ADMISSION POLICIES

Applications are accepted from men and women regardless of age or marital status. To insure consideration for admission, all applications, aptitude testing and entrance examinations should be completed early in the fall prior to summer term entry and not later than May prior to the fall semester entry. Applicants will be considered for admission on an individual basis. Admission requirements for the health science programs are:

1. An applicant must first gain admission to the university. See the section on Admission and Registration Information for details. Admission to Midwestern State University does not guarantee acceptance into a health science program.
2. It is suggested that high school courses in chemistry, biology, and algebra (2 units) be taken before entering.
3. Application forms for admission to health science programs may be obtained from the respective program coordinator. Admission to the program does not guarantee admission to the clinical component which is at the discretion of the cooperating hospitals.
4. Personal interview with the program coordinator.
5. Satisfactory personal references.
6. The semester-by-semester program of individual courses should be followed by entering freshmen. Exceptions may be made by the program coordinator.
7. Students will sign a Hold Harmless Agreement prior to entering classes which require Sheppard AFB facilities.
8. Students will be responsible for their own transportation to Sheppard AFB and to local participating hospitals. To meet federal requirements all persons who operate vehicles on Sheppard AFB must carry bodily injury and

property damage liability insurance that meets the minimum statutory requirements of applicable civil law and USAF regulations. Students must certify at the time of registration that he/she possesses such insurance if planning to operate a vehicle on Sheppard.

## **SPECIAL INSTRUCTIONS**

### **For USAF Airmen in the Midwestern State University/Sheppard AFB Health Care School Cooperative Program**

1. All airmen students desiring to take part in the associate degree program at Midwestern State University and who attend either the laboratory specialist or radiology specialist courses must make Application for Admission to the MSU registrar. Students entering the cooperative program are permitted to enroll under the special category of External Student. Students in this category may enroll during Phase I training at Sheppard without providing the credentials (transcripts, ACT scores, etc.) for completing the admission folder.

2. External students who wish to continue their education at Midwestern State University must make written application to enter the degree program, provide all credentials necessary to complete the admission folder and meet all admission requirements in effect at the time application is made. These credentials should be on file no later than one month following completion of Phase II training. When the admission folder is complete a degree plan will be prepared and a copy will be forwarded to the student.

3. Application for admission requirements will be accomplished at a special orientation given to students by SHCS.

4. MSU registration and orientation will take place in the SAFB/MSU classroom at a time scheduled by SHCS.

5. The student will pay for books and tuition at the time of registration.

6. Tuition may be refunded in part following official withdrawal from the university according to the refund regulations as described in the catalog.

7. Participating students who have completed all requirements for Phase I and are eligible to obtain semester hour credit for Phase II will file a letter of intent with the MSU Registrar and Division of Health Sciences Director prior to departing Sheppard for Phase II training and provide a copy to SHCS. Upon successful completion of Phase II an official copy of the student's grade record will be attested to by the pathologist or radiologist concerned and forwarded through SHCS for authentication and to the MSU Registrar for posting on the student's official transcript.

8. To meet the associate degree requirement of a course in state and federal government, a student may take the course in any Texas college or university. It may be taken either in residence or by correspondence. Southern Methodist University (Pol. Sci. 2311), Texas Technological University (Govt. 231), and the University of Texas at Austin (Govt. 610), as well as other institutions in the state, provide the course by correspondence. The transcript must come from a Texas college or university. Concerning the latter approach, check with your Base Education Office.

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## DENTAL HYGIENE PROGRAM

**Nancy Jewell, Program Coordinator**

Associate Professor: Jewell

Assistant Professor: Boston

Instructors: A. Chagoly, C. Chagoly, Trilli

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### Specific Admissions Policies

1. File a completed Division of Health Sciences application form with the Dental Hygiene Program Coordinator. Deadline date for application to the program is March 1 each year. Applications received after that date will not be considered for admission to the program in July.

a. Admission to MSU does not guarantee admission into the dental hygiene program.

b. One year of pre-dental hygiene studies must be completed prior to acceptance into the dental hygiene program, but such completion does not guarantee acceptance into the program.

c. Students who are graduate, licensed hygienists enter the B. S. program as determined by the program coordinator.

2. A dental hygiene applicant must take the Dental Hygiene Aptitude Test (DHAT) developed by the American Dental Hygienists' Association in the fall prior to the summer entry. The DHAT application form may be obtained from the ADHA, 211 East Chicago Ave., Chicago, Ill. 60611.

3. A personal interview with members of the program admissions committee must be held prior to their review of the application for admittance.

4. Dental hygiene major courses must be taken in the sequence prescribed in the program schedule. The lack of satisfactory completion of each course in sequence will result in suspension from the program until the course can be repeated. Any changes must have the prior approval of the program coordinator.

5. Students may obtain advanced placement credit and take challenge examinations as determined by the program coordinator. Licensed graduate dental hygienists may be given credit for all dental hygiene coursework leading to licensure as determined by the program coordinator.

**ASSOCIATE OF SCIENCE IN DENTAL HYGIENE** (85 semester hours)

**BACHELOR OF SCIENCE IN DENTAL HYGIENE** (126 semester hours)

The B.S. program consists of the 85 credit hours required for the A.S. degree plus an additional 41 hours to fulfill university requirements. Upon completion of the A. S. program, the student will be eligible to take the State Board Examination for licensure. The additional study for the B. S. provides emphasis on dental hygiene educator preparation.

See General Requirements page 31.

**General Academic** (34 semester hours)

English 1113, 1123  
 Speech 1133  
 Biology 1133, 1233, 2144  
 Chemistry 1103, 1203  
 Psychology 1103  
 Sociology 1133  
 Political Science 1333

**Major** (51 semester hours)

Dental Hygiene 1001, 1004, 1012, 1102, 1114, 2003, 2023, 2202, 2224,  
 2302, 2333, 2334, 3002, 3012, 3013, 3032, 3122, 3402, 3444

This work constitutes the requirement of 85 semester hours for an Associate Degree in Dental Hygiene.

The additional requirements for a bachelor of science in dental hygiene are:

**General Academic** (25 semester hours)

History 1133, 1233  
 Political Science 1433  
 Psychology 2203\*  
 P.E. (4 hours)  
 Advanced Elective (9 hours\*)

**Major** (16 semester hours)

Dental Hygiene 4011, 4023, 4126, 4133, 4143.

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\*Options available with advisement.

### CURRICULUM FOR A.S. AND B.S. DEGREES IN DENTAL HYGIENE

| FIRST YEAR                    |           |                       |           |
|-------------------------------|-----------|-----------------------|-----------|
| Fall Semester                 | Sem. Hrs. | Spring Semester       | Sem. Hrs. |
| 1113. English .....           | 3         | 1123. English .....   | 3         |
| 1133. Biology .....           | 3         | 1233. Biology .....   | 3         |
| 1103. Chemistry .....         | 3         | 1203. Chemistry ..... | 3         |
| 1103. Psychology .....        | 3         | 1133. Speech .....    | 3         |
| 1333. Political Science ..... | 3         | 1133. Sociology ..... | 3         |
| P.E.** .....                  | 1         | P.E.** .....          | 1         |
|                               | 16        |                       | 16        |

**First or second summer term**

|                         |       |
|-------------------------|-------|
| 2144. Biology .....     | 4     |
| 2203. Psychology* ..... | 3     |
|                         | <hr/> |
|                         | 7     |

**SECOND YEAR****Fall Semester**

|                                 |       |
|---------------------------------|-------|
| 1001. Dental Hygiene .....      | 1     |
| 1004. Dental Hygiene .....      | 4     |
| 1012. Dental Hygiene .....      | 2     |
| 1102. Dental Hygiene .....      | 2     |
| 1114. Dental Hygiene .....      | 4     |
| 1433. Political Science** ..... | 3     |
| P.E.** .....                    | 1     |
|                                 | <hr/> |
|                                 | 17    |

**Spring Semester**

|                            |       |
|----------------------------|-------|
| 2202. Dental Hygiene ..... | 2     |
| 2224. Dental Hygiene ..... | 4     |
| 2003. Dental Hygiene ..... | 3     |
| 2023. Dental Hygiene ..... | 3     |
| 2333. Dental Hygiene ..... | 3     |
| P.E.** .....               | 1     |
|                            | <hr/> |
|                            | 16    |

**THIRD YEAR****Fall Semester**

|                            |       |
|----------------------------|-------|
| 2302. Dental Hygiene ..... | 2     |
| 2334. Dental Hygiene ..... | 4     |
| 3002. Dental Hygiene ..... | 2     |
| 3012. Dental Hygiene ..... | 2     |
| 3013. Dental Hygiene ..... | 3     |
| 3032. Dental Hygiene ..... | 2     |
|                            | <hr/> |
|                            | 15    |

**Spring Semester**

|                            |       |
|----------------------------|-------|
| 3122. Dental Hygiene ..... | 2     |
| 3402. Dental Hygiene ..... | 2     |
| 3444. Dental Hygiene ..... | 4     |
| 1133. History** .....      | 3     |
| Advanced Elective** .....  | 3     |
|                            | <hr/> |
|                            | 14    |

**FOURTH YEAR****Second Summer Term**

|                            |       |
|----------------------------|-------|
| 4011. Dental Hygiene ..... | 1     |
| 4023. Dental Hygiene ..... | 3     |
| 1233. History .....        | 3     |
|                            | <hr/> |
|                            | 7     |

**Fall Semester**

|                            |       |
|----------------------------|-------|
| 4133. Dental Hygiene ..... | 3     |
| 4143. Dental Hygiene ..... | 3     |
| Advanced Elective .....    | 3     |
| Advanced Elective .....    | 3     |
|                            | <hr/> |
|                            | 12    |

**Spring Semester**

|                            |       |
|----------------------------|-------|
| 4126. Dental Hygiene ..... | 6     |
|                            | <hr/> |
|                            | 6     |

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\*Options available with advisement.

\*\*Needed for B.S.D.H. only.

**COURSES IN DENTAL HYGIENE****1001. Orientation to Dental Hygiene Practice****1 (1-0)**

Orientation to dental procedures including a history of dental services and dental organizational structure. Discussions and assignments introducing medical-dental terminology and skills needed in providing dental health care, discussion of medical-dental emergencies, patient education and interpersonal relationships.



**1004. Dental Anatomy** 4 (2-4)

Nomenclature, morphology, and functions of the individual teeth and their surrounding structures including head-neck anatomy. (Available in directed independent study modular form for USAF Preventive Dentistry Specialists with consent of program chairman.)

**1012. Dental Materials** 2 (1-2)

Properties of the materials used in restorative dentistry and the influence of manipulation upon those properties as related to private practice.

**1102. Clinical Dental Hygiene I** 2 (2-0)

Lecture/discussions including preclinical orientation, prevention of disease transmission, patient care procedures, medical/dental history, oral inspection, dental/periodontal charting, and instrument sharpening.

**1114. Practicum I** 4 (0-8)

Development of techniques for the detection and removal of calculus as well as achievement of basic clinical skills and patient care procedures.

**2003. Histology** 3 (3-0)

Cytology, embryology, and histology of body tissues with special emphasis on the teeth and their surrounding structures.

**2023. Oral Radiology** 3 (2-2)

A study of the history, safety precautions and clinical application of roentgenographic theory, including qualitative evaluation of radiographs. This includes angulations used, placement of film, exposure and processing of the exposed film.

**2202. Clinical Dental Hygiene II** 2 (2-0)

Prerequisites: Dental Hygiene 1102, 1114.

Lecture/discussions of medical dental emergencies, dental caries, use of fluorides, care of hypersensitive teeth, ultrasonic scaling, root planing, and cleaning of dental appliances.

**2224. Practicum II** 4 (0-8)

Prerequisites: Dental Hygiene 1102, 1114, 2202.

Clinical practicum continued.

**2302. Clinical Dental Hygiene III** 2 (2-0)

Prerequisites: Dental Hygiene 1102, 1114, 2202, 2224.

Lecture/discussions including amalgam polishing, applied nutrition, scaling and root planing, and dental specialties.

**2333. Nutrition** 3 (3-0)

An introductory course in nutrition with special emphasis on the role of nutrition in health and disease, in tooth formation, dental caries, and fluoridation.

**2334. Practicum III** 4 (0-8)

Prerequisites: Dental Hygiene 1102, 1114, 2202, 2224, 2302.

Clinical practicum continued.

**3002. Pharmacology** 2 (2-0)

Study and exercises concerning the general principles of pharmacology and of pharmaceuticals, especially those antiseptics, pain relieving drugs, antibiotics and the anesthetics used in dentistry.

**3012. Periodontology** 2 (2-0)

The study of the normal and pathological structures of the periodontium with emphasis on patient education by the hygienists' for the prevention of periodontal disease and gingival problems.

**3013. Pathology** 3 (3-0)

Introduction to general pathology concerning gross and microscopic pathology of the teeth and related oral tissues, oral manifestations of systematic disturbances, degenerative changes, inflammation and repair.

**3032. Dental Health Education** 2 (2-0)

Principles involved in effective dental health education and the methods and materials used in the delivery of such information.

**3122. Dental Public Health** 2 (2-0)

Theory, methodology, and application of the principles of public health in relating the significance of oral health to total health, with special emphasis on the role of the dental team in public health programs.

**3402. Clinical Dental Hygiene IV** 2 (2-0)

Prerequisites: Dental Hygiene 1102, 1114, 2202, 2224, 2302, 2334.

Lecture/discussions including periodontal dressings, suture removal, rubber dam placement and removal, cytological smears, and a general review of all dental hygiene sciences.

**3444. Practicum IV** 4 (0-8)

Prerequisites: Dental Hygiene 1102, 1114, 2202, 2224, 2302, 2334, 3402.

Clinical practicum continued.

**4011. Problems in Dental Public Health** 1 (1-0)

Study and discussion of preventive dentistry theories and techniques emphasizing the principles and problems of community dental health.

**4023. Dental Hygiene Teaching Methods** 3 (3-0)

Study of the methods, materials and techniques concerned with effective teaching of dental health sciences and manual skills.

**4126. Dental Hygiene Student Teaching** 6 semester hours

Prerequisite: Dental Hygiene 4023.

Teaching, under supervision, dental and dental hygiene science courses to dental hygiene students in approved settings; meets five half-days/week for the semester.

**4133. Advanced Patient Care Procedures** 3 (2-2)

Study and clinical application in the design of care plans for the patient who needs extended professional care. Clinic practicum.

**4143. Principles of Dental Hygiene Program Administration** 3 (3-0)

Study and discussion designed to prepare students in the fundamentals of the administrative procedures necessary to dental hygiene program organization and operation.

**4153. Special Problems** 3 semester hours

Prerequisites: A major in dental hygiene and consent of program chairman.

Directed research and study in the field of the students' interest and preparation. May be repeated once for credit.

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## MEDICAL TECHNOLOGY PROGRAM

**Barbara Jean George, Interim Program Coordinator**

Instructors: George, Prigmore

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1. Medical laboratory technology students without prior college experience are normally entered annually at the beginning of the fall semester at Midwestern.

2. Other students with prior college experience and/or medical laboratory technology training and experience enter as determined by the program coordinator.

3. Students may obtain advanced placement credit and take challenge examinations as determined by the program coordinator.

4. Full credit may be given to USAF students for courses of Medical Technology 2036, 2135, 2234, 2454, 2435, 2444, 2634 and 2644 who register at Midwestern State University while undergoing training at Sheppard AFB and complete Phase I of the USAF medical laboratory specialist course and the follow-on Phase II course (38 weeks) at participating American Medical Association approved USAF hospitals (36 semester hours). (Refer to Special Instructions for USAF Airmen.)

5. A student must earn a grade of C (2.0) or above in all required medical laboratory technology courses and each segment of the individual courses. A student who fails to maintain a grade of C (2.0) in any of the required courses or a segment of an individual course may repeat the course or segment ONCE and must meet the above scholastic requirement.

6. A personal interview with members of the program admissions committee must be held prior to their review of the application for admission into the professional phase of the program.

### **ASSOCIATE OF SCIENCE IN MEDICAL TECHNOLOGY** (74 semester hours)

Program approved by AMA Council on Medical Education

**General** (see page 27)

**General Requirements** (36 semester hours)

Biology: Eight hours to be selected from the following courses with the consent of the Medical Technology Program Coordinator: Biology 1144, 1344, 2144

Chemistry 1142, 1143, 1242, 1243

English 1113, 1123

Mathematics select six hours from the following courses:

1203, 1213, 1233, 1433 (or higher); Statistics 3573

Political Science 1333 or 1433

Elective 3 semester hours to be selected with consent of adviser.

**Note:** 1113 Survey of Medical Technology is an elective when taken by USAF Airmen students enrolled in the MLT Extension Program.

**Major (38 semester hours)**

Medical Laboratory Technology 1111\*, 1121\*, 2036, 2135, 2234, 2435, 2444, 2454, 2634, 2644

\*Not required on USAF Airmen enrolled in the MLT Cooperative Program.

**Note:** An elective may be substituted for MLT 1111 and MLT 1121 with the consent of Medical Technology Program Coordinator.

**CURRICULUM LEADING TO ASSOCIATE OF SCIENCE DEGREE  
IN MEDICAL LABORATORY TECHNOLOGY**

**FIRST YEAR**

| <b>Fall Semester</b>           | <b>Sem. Hrs.</b> | <b>Spring Semester</b>         | <b>Sem. Hrs.</b> |
|--------------------------------|------------------|--------------------------------|------------------|
| 1344. Biology .....            | 4                | Elective .....                 | 3                |
| 1142. Chemistry .....          | 2                | 1242. Chemistry .....          | 2                |
| 1143. Chemistry .....          | 3                | 1243. Chemistry .....          | 3                |
| 1113. English .....            | 3                | 1123. English .....            | 3                |
| 1233. Mathematics .....        | 3                | 3573. Statistics .....         | 3                |
| 1111. Medical Technology ..... | 1                | 1121. Medical Technology ..... | 1                |
|                                | <hr/>            |                                | <hr/>            |
|                                | 16               |                                | 15               |

**First Summer Term**

|                               |       |
|-------------------------------|-------|
| 1333. OR                      |       |
| 1433. Political Science ..... | 3     |
| 1144. Biology OR              |       |
| 2144. Biology .....           | 4     |
|                               | <hr/> |
|                               | 7     |

**Second Summer Term**

Open to allow for meeting entry dates into the fall semester laboratory courses at SHCS

**SECOND YEAR**

| <b>Fall Semester</b>            |       | <b>Spring Semester</b>         |       |
|---------------------------------|-------|--------------------------------|-------|
| 2036. Medical Technology* ..... | 6     | 2454. Medical Technology ..... | 4     |
| 2135. Medical Technology* ..... | 5     | 2435. Medical Technology ..... | 5     |
| 2234. Medical Technology* ..... | 4     | 2444. Medical Technology ..... | 4     |
|                                 | <hr/> |                                | <hr/> |
|                                 | 15    |                                | 13    |

**First Summer Term**

|                             |  |
|-----------------------------|--|
| 2634. Medical Technology I  |  |
| 2644. Medical Technology II |  |

**Second Summer Term**

|                                      |       |
|--------------------------------------|-------|
| 2634. Medical Technology (cont'd) .. | 4     |
| 2644. Medical Technology (cont'd) .. | 4     |
|                                      | <hr/> |
|                                      | 8     |

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\*Conducted at School of Health Care Sciences, SAFB.

Medical Technology 2036, 2135 and 2234 consist of the medical laboratory specialist course at the School of Health Care Sciences, Sheppard Air Force Base. All instruction is in the laboratory at the USAF School of Health Care Sciences at Sheppard AFB. This is a 17-week course and must be taken as a unit. These courses are offered on a variable-shift basis, six hours per day Monday through Friday each week. Fee: \$100.00. This includes laboratory supplies, textbooks and study guides for the 15 semester hours.

The student will enroll for courses 2435, 2444, and 2454 at the spring semester and courses 2634 and 2644 at the first summer term. These courses are conducted at the affiliated clinical laboratories Monday through Friday, eight hours per day, for a total of approximately 1300 clock hours. Students will be required to meet all sessions scheduled by the clinical instructor and approved by the program coordinator, unless properly excused.

Upon successful completion of the AMA approved curriculum above, the student is eligible to take the registry examination for certification as a registered medical laboratory technician by the Registry of the American Society of Clinical Pathologists.

#### **BACHELOR OF SCIENCE IN MEDICAL TECHNOLOGY** (137 semester hours)

Upon successful completion of an AMA approved four-year program, the student is eligible to take the American Society of Clinical Pathologists registry examination for medical technologists.

#### **REQUIREMENTS FOR BACHELOR OF SCIENCE IN MEDICAL TECHNOLOGY DEGREE:**

**General** (see page 31)

##### **General Requirements**

Biology: Minimum of 27 hours to be selected from the following courses with consent of Medical Technology Program Coordinator:

Biology 1144, 1344, 3011, 3013, 3021, 3023, 3044, 3144, 3333, 4443

Chemistry: Minimum of 25 hours to be selected from the following courses with consent of Medical Technology Program Coordinator:

Chemistry 1142, 1143, 1242, 1243, 2302, 2303, 3302, 3303, 3402, 3403, 3502, 3503, 4243

Advanced electives: Minimum of six hours chosen from the following courses with consent of Medical Technology Program Coordinator:

Biology 3333, 4443; Chemistry 3502, 3503, 4243

(**Note:** Chemistry 3503 is prerequisite for 4243.)

English 1113, 1123

History 1133, 1233

Mathematics 1233 (or higher), 3573

Physical Education activities (4 semester hours)

Political Science 1333, 1433

Electives 3 semester hours to be selected with consent of adviser.

##### **Major** (47 semester hours)

Medical Technology 4001, 4321, 4331, 4433

Satisfactory completion of a clinical internship in a medical technology program approved by the Council on Medical Education of the AMA. 41 semester hours are awarded in the following areas of instruction: Hematology, Chemistry, Urinalysis, Serology, Microbiology, Blood Banking, Laboratory Rotation.



### SUGGESTED CURRICULUM LEADING TO THE BACHELOR OF SCIENCE DEGREE IN MEDICAL TECHNOLOGY

#### FIRST YEAR

| Fall Semester                   | Sem. Hrs. | Spring Semester                 | Sem. Hrs. |
|---------------------------------|-----------|---------------------------------|-----------|
| 1344. Biology .....             | 4         | 1144. Biology .....             | 4         |
| 1142. Chemistry .....           | 2         | 1242. Chemistry .....           | 2         |
| 1143. Chemistry .....           | 3         | 1243. Chemistry .....           | 3         |
| 1113. English .....             | 3         | 1123. English .....             | 3         |
| 1233. Mathematics .....         | 3         | 3573. Statistics .....          | 3         |
| 1111. Medical Technology* ..... | 1         | 1121. Medical Technology* ..... | 1         |
| P.E. ....                       | 1         | P.E. ....                       | 1         |
|                                 | 17        |                                 | 17        |

#### Summer Term

Elective ..... 3

#### SECOND YEAR

| Fall Semester                  | Sem. Hrs. | Spring Semester               | Sem. Hrs. |
|--------------------------------|-----------|-------------------------------|-----------|
| 3013. Biology .....            | 3         | 3023. Biology .....           | 3         |
| 3011. Biology .....            | 1         | 3021. Biology .....           | 1         |
| 4001. Medical Technology ..... | 1         | 3044. Biology .....           | 4         |
| 2302. Chemistry .....          | 2         | 1233. History .....           | 3         |
| 2303. Chemistry .....          | 3         | 1433. Political Science ..... | 3         |
| 1133. History .....            | 3         | 3503. Chemistry AND           |           |
| 1333. Political Science .....  | 3         | 3502. Chemistry .....         | 5         |
| P.E. ....                      | 1         | OR                            |           |
|                                | 17        | 3333. Biology .....           | 3         |
|                                |           |                               | 17 or 19  |

#### THIRD YEAR

| Fall Semester                  | Sem. Hrs. | Spring Semester                | Sem. Hrs. |
|--------------------------------|-----------|--------------------------------|-----------|
| 4523. Biology .....            | 3         | 3144. Biology .....            | 4         |
| 3303. Chemistry .....          | 3         | 3403. Chemistry .....          | 3         |
| 3302. Chemistry .....          | 2         | 3402. Chemistry .....          | 2         |
| 4321. Medical Technology ..... | 1         | 4433. Medical Technology ..... | 3         |
| 4331. Medical Technology ..... | 1         | Elective .....                 | 3         |
| 4443. Biology                  |           | P.E. ....                      | 1         |
| OR                             |           |                                | 16        |
| 4243. Chemistry** .....        | 3         |                                |           |
|                                | 13        |                                |           |

#### FOURTH YEAR

Satisfactory completion of a clinical internship in a medical technology program approved by the Council on Medical Education of the AMA and Midwestern State University.

\*An elective may be substituted for MT 1111 and 1121 with consent of program coordinator.

\*\*Chemistry 3503 is a prerequisite for Chemistry 4243.

### BACHELOR OF SCIENCE IN MEDICAL TECHNOLOGY: 2+2 integrated MLT-MT Program

The associate degree program constitutes 72 semester hours of the 136 hours required in this program.

**General** (see page 31)

**General Requirements**

Biology: Minimum of 12-16 hours chosen from the following courses with consent of Medical Technology Program Coordinator: Biology 3011, 3013, 3021, 3023, 3044\*, 3144, 3333, 4433, 4523

Chemistry: Minimum of 15 hours chosen from the following courses with consent of Medical Technology Program Coordinator: Chemistry 2302, 2303, 3302, 3303, 3402, 3403, 3502, 3503, 4243\*\*

Advanced electives: Minimum of six hours chosen from the following courses with consent of Medical Technology Program Coordinator: Biology 3333, 4443; Chemistry 3502, 3503, 4243\*\*

History 1133, 1233

Political Science 1433

Elective 3 semester hours to be selected with consent of adviser

Physical Education activities (4 semester hours)

**Major (13 semester hours)**

Medical Technology 4321, 4331, 4336, 4342, 4433

NOTE: Requirements for entrance to the third year of this alternate program are the Associate Degree in Medical Laboratory Technology with consent of the Program Coordinator.

**SUGGESTED CURRICULUM FOR MT PORTION OF 2+2 PROGRAM****THIRD YEAR**

| <b>Fall Semester</b>  | <b>Sem. Hrs.</b> | <b>Spring Semester</b>        | <b>Sem. Hrs.</b> |
|-----------------------|------------------|-------------------------------|------------------|
| 3013. Biology .....   | 3                | 3021. Biology .....           | 1                |
| 3011. Biology .....   | 1                | 3023. Biology .....           | 3                |
| 4523. Biology .....   | 3                | 3044. Biology* .....          | 4                |
| 2302. Chemistry ..... | 2                | 1233. History .....           | 3                |
| 2303. Chemistry ..... | 3                | 1433. Political Science ..... | 3                |
| 1133. History .....   | 3                | 3502. Chemistry AND           |                  |
| P.E. ....             | 1                | 3503. Chemistry .....         | 5                |
|                       | —                | OR                            |                  |
|                       | 16               | 3333. Biology .....           | 3                |
|                       |                  |                               | <u>17 or 19</u>  |

**FOURTH YEAR**

| <b>Fall Semester</b>           | <b>Spring Semester</b>         |
|--------------------------------|--------------------------------|
| 3302. Chemistry .....          | 3144. Biology .....            |
| 3303. Chemistry .....          | 3402. Chemistry .....          |
| 4321. Medical Technology ..... | 3403. Chemistry .....          |
| 4331. Medical Technology ..... | 4342. Medical Technology ..... |
| 4336. Medical Technology ..... | 4433. Medical Technology ..... |
| 4433. Biology                  | Elective .....                 |
| OR                             | P.E. ....                      |
| 4243. Chemistry** .....        |                                |
| P.E. ....                      |                                |
|                                | <u>18</u>                      |
|                                | 18                             |

\*Biology 3044 must be taken if a bacteriology or microbiology course approved by NAACLS has not been taken.

\*\*Chemistry 3503 is a prerequisite for Chemistry 4243.

**COURSES IN MEDICAL TECHNOLOGY****1111. Applications to Medical Laboratory Sciences 1 (1-0)**

An orientation to the medical laboratory field. An introduction to medical terminology, professional ethics, and medical technology discipline areas. Field trips to USAF School of Health Care Sciences and local hospitals. Not required for USAF airmen students enrolled in the cooperative program.

**1113. Survey of Medical Technology 3 (3-0)**

Study of all areas of medical technology with emphasis on correlation of laboratory tests in relation to disease states. The history and professional ethics will be surveyed.

**1121. Applications to Medical Laboratory Sciences 1 (1-0)**

Discussion of major discipline areas in the medical laboratory field and basic demonstrations of certain medical laboratory tests. Not required for USAF airmen students enrolled in the cooperative program.

**2036. Introduction to Lab, Clinical Chemistry and Urinalysis 6 (4-8)**

Introduction to medical laboratory training, clinical chemistry and urinalysis with emphasis upon the use of laboratory equipment in performing the many tests required of a medical laboratory technician.

**2135. Medical Bacteriology, Mycology, and Parasitology 5 (3-7)**

Introduction to microbiology, bacteriology and parasitology; the development of bacteriological techniques; cultivation of micro-organism from clinical materials; proficiency development laboratory; identification of parasites and procedures of fungal examination.

**2234. Hematology, Serology, and Blood Banking 4 (2-8)**

Develops an understanding and proficiency in laboratory techniques concerning the diseases of the blood, and the scientific effects associated with the properties and actions of serums.

**2435. Clinical Lab: Hematology, Serology, and Blood Banking 5 (4-12)**

Prerequisites: Medical Technology 2036, 2135 and 2234 or equivalent. Concurrent enrollment in 2444 and 2454.

Study of the theoretical and practical aspects of clinical hematology, serology, immunohematology and blood banking.

**2444. Clinical Lab: Bacteriology, Mycology, and Parasitology 4 (3-9)**

Prerequisites: Medical Technology 2036, 2135 and 2234 or equivalent. Concurrent enrollment in 2435 and 2454.

Study of theoretical and practical aspects of medical bacteriology, parasitology and mycology.

**2454. Clinical Lab: Chemistry and Urinalysis 4 (3-9)**

Prerequisites: Medical Technology 2036, 2135 and 2234 or equivalent. Concurrent enrollment in 2435 and 2444.

Study of the theoretical and practical aspects of clinical chemistry (general, automated and special) and urinalysis.

**Note:** Total laboratory fee of \$25.00 for MLT 2435, 2444, 2454.

**2634. Clinical Practicum I**

4 (3-17)

Prerequisites: Medical Technology 2434, 2433, and 2443. Concurrent enrollment in 2644.

Students will be assigned to an affiliated clinical laboratory for supervised clinical practice in the areas of hematology, serology, blood banking and urinalysis. Continues through first and second summer sessions. Laboratory fee: \$10.00.

**2644. Clinical Practicum II**

4 (3-17)

Prerequisites: Medical Technology 2434, 2433, and 2443. Concurrent enrollment in 2634.

Students will be assigned to an affiliated clinical laboratory for supervised clinical practice in the areas of medical bacteriology, parasitology, mycology and clinical chemistry. Continues through first and second summer sessions. Laboratory fee: \$10.00.

**COURSES FOR BACHELOR DEGREE  
IN MEDICAL TECHNOLOGY****4001. Seminar in Medical Technology**

1 (1-0)

Prerequisite: Restricted to medical technology majors.

Discussion of current topics of interest in laboratory medicine. Students will present oral reports.

**4321. Principles of Laboratory Management and Supervision**

1 (1-0)

Prerequisite: Consent of instructor.

Lectures and discussions of general principles of supervision and management in the clinical laboratory and its personnel. This course is designed to prepare the graduate for a supervisory role.

**4331. Seminar in Clinical Pathology**

1 (1-0)

Prerequisite: Consent of instructor.

A study of case histories of patients with emphasis on uses made of laboratory data by clinicians in patient management.

**4336. Advanced Clinical Laboratory Science I**

6 (3-16)

Prerequisites: Associate Degree in Medical Laboratory Technology or equivalent and consent of program chairman. Concurrent enrollment in Medical Technology 4321 and 4331.

Directed independent research and laboratory study conducted at selected affiliated laboratories including USAF Regional Hospital at SAFB. Laboratory fee: \$5.00.

**4342. Advanced Clinical Laboratory Science II**

2 semester hours

Prerequisite: Medical Technology 4336.

Modular development of quality control procedures in specialized areas of clinical laboratory medicine. Includes directed research and development project.

**4433. Teaching Methods in Medical Technology**

3 (3-0)

Prerequisite: Consent of program coordinator.

Study of instructional methods, psychology, and philosophy in teaching medical laboratory personnel. Includes preparation of instructional objectives,



lesson plans, programmed teaching material, evaluation of students and the use of audio-visual aids.

4451, 4552, 4553. **Special Problems in Medical**

**Technology**

1, 2, 3 semester hours

Prerequisite: Consent of program coordinator.

Directed research in specialized areas of interest in laboratory medicine.

Laboratory fee: \$8.00 when required.

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## **RADIOLOGIC TECHNOLOGY PROGRAM**

**Anton Zembrod, Program Coordinator** (Bea Wood Hall, 215A)

Assistant Professor: Zembrod

Instructors: Domi, Hobbins

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1. A curriculum leading to an associate of science and bachelor of science degree is offered. After completing all requirements for the associate degree students are eligible to take the national registry examination administered by the American Registry of Radiologic Technologists.

2. New students for the associate degree program must file an application for admission to the radiology program with the program coordinator. Deadline for application is four months prior to the starting date of a class. Beginning radiologic technology classes are scheduled in fall 1977, first summer term in 1978, and spring 1979. Student selections are based on past academic achievements, personal interviews, and personal references.

3. Radiologic technology students who are not in the MSU program may audit the technical courses in lieu of pursuing the associate degree when recommended by their chief radiologist. Audit fees will be paid as described in the university catalog.

4. Registered radiologic technologists, who are graduates of an accredited AMA approved school for radiologic technologists, entering the associate program may receive advanced placement credit for courses of Radiologic Technology 1013, 1112, 1213, 1312, 1413, 1512 and RAD Practicum 1113, 1123, 2013, 2133, 2216 and 2316.

As determined by the coordinator, students may complete other radiology courses by challenge examination.

5. Students who have completed the associate program in radiologic technology may enter the bachelor program as juniors. Minimum requirement for entering the bachelor program is completion of a two-year AMA approved school for radiologic technologists or certification by the American Registry of Radiologic Technologists.

6. Full credit may be given to USAF airmen students who are registered at Midwestern while undergoing training at Sheppard AFB and complete the USAF radiology specialists course (Phase I) for courses Radiologic Technology 1013, 1112, 1213, 1312, 1413, and 1512 (15 semester hours). Those who complete the Phase II clinical training at AMA approved USAF hospitals may be given additional credit for the 38-week Phase II training curriculum, courses of 1113, 1123, 2013, 2123, 2133, and 2223 (18 semester hours). Additional credit for courses 2216 and 2316 will be granted to graduates of Phase II who



complete the requirements for the registry examination as attested to by a letter of good standing from the American Registry of Radiologic Technologists to the Registrar, Midwestern State University.

7. A student must earn a grade of C (2.0) or above in all required radiologic technology courses. A student who fails to maintain a grade of C (2.0) in any of the required courses may repeat the course ONCE. A student who fails to earn at least a grade of C in two clinical practicum courses will be considered for dismissal from the program.

#### **ASSOCIATE OF SCIENCE IN RADIOLOGIC TECHNOLOGY** (69 semester hours)

Upon satisfactory completion of this program the student is eligible to write the registry examination for certification as a registered radiologic technologist by the American Registry of Radiologic Technologists.

**General** (see page 27)

**General Academic** (18 semester hours)

English 1113, 1123

Mathematics—Select one from the following courses:

1103, 1203, 1213, 1233, 1433

Psychology 1103

Political Science 1333 or 1433

Elective—3 semester hours to be selected with consent of adviser

**Major** (51 semester hours)

Radiologic Technology 1013, 1112, 1113, 1123, 1213, 1312, 1413, 1512, 2013, 2023\*, 2123\*, 2133, 2216, 2223\*, 2316, 2413\*\*

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\*Registered technologists may substitute advanced courses with consent of adviser.

\*\*Course 2413 may be substituted by an elective with consent of adviser.

#### **CURRICULUM LEADING TO ASSOCIATE OF SCIENCE DEGREE IN RADIOLOGIC TECHNOLOGY**

| <b>First Semester</b>             | <b>Sem. Hrs.</b> | <b>Second Semester</b>            | <b>Sem. Hrs.</b> |
|-----------------------------------|------------------|-----------------------------------|------------------|
| 1113. English .....               | 3                | 1123. English .....               | 3                |
| Mathematics* .....                | 3                | 1333. Political Science .....     | 3                |
| 1103. Psychology .....            | 3                | Elective .....                    | 3                |
| 1013. Radiologic Technology ..... | 3                | 1213. Radiologic Technology ..... | 3                |
| 1112. Radiologic Technology ..... | 2                | 1413. Radiologic Technology ..... | 3                |
| 1312. Radiologic Technology ..... | 2                | 1512. Radiologic Technology ..... | 2                |
|                                   | <hr/>            |                                   | <hr/>            |
|                                   | 16               |                                   | 17               |

**Third Semester**

|       |                               |       |
|-------|-------------------------------|-------|
| 1113. | Radiologic Technology .....   | 3     |
| 1123. | Radiologic Technology .....   | 3     |
| 2413. | Radiologic Technology** ..... | 3     |
|       |                               | <hr/> |
|       |                               | 9     |

**Fourth Semester**

|       |                               |       |
|-------|-------------------------------|-------|
| 2013. | Radiologic Technology .....   | 3     |
| 2133. | Radiologic Technology .....   | 3     |
| 2023. | Radiologic Technology** ..... | 3     |
|       |                               | <hr/> |
|       |                               | 9     |

**Fifth Semester**

|       |                               |       |
|-------|-------------------------------|-------|
| 2216. | Radiologic Technology .....   | 6     |
| 2123. | Radiologic Technology** ..... | 3     |
|       |                               | <hr/> |
|       |                               | 9     |

**Sixth Semester**

|       |                               |       |
|-------|-------------------------------|-------|
| 2316. | Radiologic Technology .....   | 6     |
| 2223. | Radiologic Technology** ..... | 3     |
|       |                               | <hr/> |
|       |                               | 9     |

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\*Select one from Mathematics 1103, 1203, 1213, 1233, 1433.

\*\*May be substituted with consent of adviser.

**NOTE:** Radiologic technology courses 1013, 1112, 1213, 1413, and 1512 may be offered at the School of Health Care Sciences at Sheppard AFB, or on the Midwestern campus. If taken at Sheppard, all 15 semester hours must be taken as a unit. A collective lab fee of \$70 (includes part of the required text material) is payable to the MSU Business Office during the first two weeks of the semester in which a new radiology class starts.

**BACHELOR OF SCIENCE IN RADIOLOGIC TECHNOLOGY** (130 semester hours)

The Associate Degree in Radiologic Technology fulfills the requirements of the first two years.

**General Academic** (34 semester hours)

18 semester hours listed under the associate degree

History 1133, 1233

Political Science 1333 or 1433

Speech 1133

Physical Education (4 semester hours, see page 81)

**Major** (69 semester hours)

Radiologic Technology 1013, 1112, 1113, 1123, 1213, 1312, 1413, 1512, 2013, 2133, 2216, 2316; plus at least 30 semester hours from the following: 2023, 2123, 2223, 2413, 3013, 3113, 3213, 3313, 3413, 4513, 4613, 4813, 4823, 4913

Areas of Secondary Emphasis (27 semester hours)

To be determined with approval of the program coordinator.

To assure maximum flexibility for working technologists, second, third and fourth year radiology courses are offered in modular form (directed independent study.) Individual assistance, laboratory experiments, unit and final tests will be arranged on an individual basis.

Registration by mail can be arranged for out of town students, providing their application for admission and a list of the courses they plan to take reaches the program coordinator at least four weeks before the semester starts. New students may enter the program in the fall, spring, or first summer term.

**COURSES IN RADIOLOGIC TECHNOLOGY****1103. Introduction to Radiologic Technology 3 (2-2)**

An introduction to the field of radiologic technology, radiation protection, professional ethics, prime exposure factors, and the technical factors of film quality. The operation of energized x-ray units will be demonstrated. Students perform experiments to emphasize how KVP, MA, time, and distance affect radiographic film quality. Students will also be introduced to patient exposure care in the radiology department.

**1112. Introduction to Radiographic Physics 2 (1-2)**

A discussion of x-ray production, interaction of x-rays with matter, basic x-ray circuits, methods of rectification, construction of x-ray tubes, and methods of x-ray detection and measurement. Students perform laboratory experiments to demonstrate how KVP, MAS, distance and collimation affect the patient exposure to ionizing radiation.

**1113. Practicum (240 clock hours) 3 (1-14)**

Introduction to the clinical environment at one of the affiliated hospitals. Students are rotated through the different work centers to observe the operation of the x-ray department. They take standard radiographs of the chest and extremities under the close supervision of a qualified technologist.

**1123. Practicum (240 clock hours) 3 (1-14)**

This is a continuation of 1113. Students take standard radiographs of the chest and extremities under limited supervision, and standard radiographs of the spine, skull, sinuses, and abdomen under close supervision by a qualified radiologic technologist.

**1213. Radiographic Anatomy and Physiology 3 (3-0)**

A study of the various systems, structures, and organs of the body and their functions. Osteology and topographic anatomy are emphasized with special attention to their radiographic appearance.

**1312. Radiographic Techniques and Darkroom Procedures 2 (1-2)**

A discussion of the characteristics of radiographic film, construction and design of radiographic darkrooms, manual, and automatic processing techniques. Special radiographic techniques such as stereoradiography, scanography, body-section radiography, etc., are discussed, demonstrated, and practiced.

**1413. Introduction to Radiographic Positioning 3 (1-4)**

Fundamentals of radiographic positioning and the terminology used to describe radiographic projections. Standard radiographic projections are discussed and demonstrated. Students produce standard radiographs on radiographic phantoms.

**1512. Introduction to Special Radiographic Procedures 2 (2-0)**

A discussion of radiographic contrast media, emergency reactions to contrast media, pressure injectors, rapid film changers, and other specialized equipment. Students are introduced to the most common special procedures, the anatomy demonstrated, the methods of injecting the contrast media and the radiographic projections used.

**2013. Practicum (210 clock hours) 3 (1-14)**

Continuation of 1123. Students take all standard radiographs under limited supervision. They assist qualified technologists in obtaining radiographs on trauma patients.

**2023. Radiographic Techniques I 3 (2-2)**

A study of advanced radiographic principles with emphasis on radiation protection, principles of electricity, film quality, and an introduction to radiotherapy and nuclear medicine. Service fee: \$5.00.

**2123. Radiographic Techniques II 3 (2-2)**

A continuation of 2023. This course concentrates on methods to improve radiographic film quality, methods of reducing patient exposures to ionizing radiation through the proper exposure factors, the use of accessory devices to patient safety, protective shielding, and a review of special radiographic techniques. Service fee: \$5.00

**2133. Practicum (210 clock hours) 3 (1-14)**

Continuation of 2013. Clinical introduction to fluoroscopic examinations, special radiographic procedures, and special radiographic techniques. Students perform emergency call duty under the supervision of a qualified radiologic technologist.

**2216. Practicum (650 clock hours) 6 (3-28)**

Continuation of 2133. Students will assist qualified technicians with special procedures, special radiographic techniques, and emergency call.

**2223. Special Radiographic Procedures 3 (2-2)**

Survey of radiographic equipment used for special procedures. Review of radiographic examinations requiring negative or positive contrast media with emphasis on the anatomy demonstrated. Service fee: \$5.00.

**2316. Practicum (650 clock hours) 6 (2-28)**

Continuation of 2216. Students will perform all standard radiographs without supervision; assist the radiologist with fluoroscopic examinations; perform limited supervision; perform emergency call duty. Furthermore, the student will be introduced to radiation therapy and radioisotope techniques.

**2413. Medical Terminology 3 (3-0)**

A study of medical terms and their application. An integrated approach which includes an introduction to medical and surgical diseases, structure of medical terms, and how these terms are used to describe medical conditions.

### **COURSES FOR BACHELOR DEGREE IN RADIOLOGIC TECHNOLOGY**

**3013. Principles of Nuclear Medicine 3 (2-2)**

A study of nuclear structure radioactive decay, property of radiation and interaction with matter radiation detection and measurement and biological application of nuclear medicine. Service fee: \$5.00.

**3113. Radiation Physics 3 (2-2)**

Investigation and application of X- and gamma radiative interactions with matter, radiographic apparatus, radiologic image formation, and radiographic imaging systems. Service fee: \$5.00.



**3213. Advanced Radiographic Procedures I** 3 (2-2)

A survey of the radiographic, fluoroscopic, and accessory equipment used for special radiographic procedures. This includes a study of pressure injectors, serial film changers, and special techniques such as magnification and subtraction. Service fee: \$5.00.

**3313. Radiation Therapy and Measuring Devices** 3 (2-2)

A study of radiation therapy principles, dose-rate measurements, equipment calibration, radiation units, design principles and shielding requirements for radiation therapy installations. Service fee: \$5.00.

**3413. Advanced Radiographic Procedures II** 3 (2-2)

A survey of special radiographic procedures with emphasis on the anatomy demonstrated, the equipment used, and the role and responsibilities of the radiologic technologists. Service fee: \$5.00.

**4513. Administration and Supervision of Radiology Department** 3 (2-2)

A study of general principles of supervision and administration of radiology departments. Includes such topics as methods of billing, modern record and film filing systems, in-service training, and human relations. Service fee: \$5.00.

**4613. Planning and Design of Medical Radiological Facilities** 3 (3-0)

This course prepares the radiologic technologist to become a useful member of the radiology department planning team. Student will be introduced to blueprint reading, space and structural requirements, specification and electrical requirements for new equipment.

**4813. Teaching Radiologic Technology** 3 (2-2)

Preparation and use of terminal objectives, curriculum development, preparation of lesson plans and programmed teaching methods, self-paced teaching-use and preparation of audio-visuals, laboratory and clinical instruction, and closed circuit television applications. Service fee: \$5.00.

**4823. Student Teaching** 3 semester hours

Teaching under supervision in program of radiologic technology.

**4913. Special Problems in Radiologic Technology** 3 semester hours

Prerequisites: See page 24.

Directed research in educational methods and development. Selected according to the interest and needs of the student. May be repeated once for credit. Service fee: \$8.00 when required.

## **AFFILIATED INSTITUTIONS**

Midwestern State University is advantageously situated with generous cooperation of vicinity hospital resources and the USAF School of Health Care Sciences at Sheppard Air Force Base. Affiliation arrangements with these institutions have been or are being consummated.

### **U.S. Air Force School of Health Care Sciences at Sheppard AFB, Texas**

**AMA approved USAF Hospitals** affiliated with the program through the USAF School of Health Care Sciences are USAF hospitals located at Lackland AFB, Tex.; Kessler AFB, Miss.; Sheppard AFB, Tex.; Chanute AFB, Ill.; An-



draws AFB, Md.; Wright-Patterson AFB, Ohio; Travis AFB, Cal.; Scott AFB, Ill.; Carswell AFB, Tex.; Air Force Academy, Colo.; Eglin AFB, Fl.; Homestead AFB, Fl.; MacDill AFB, Fl.; Maxwell AFB, Ala.; Mather AFB, Cal.; Offutt AFB, Neb.; Langley AFB, Va.; March AFB, Cal.; Shaw AFB, S.C.; Fairchild AFB, Wash.; Minot AFB, N.D..

**Wichita General Hospital of Wichita Falls**

**Bethania Hospital of Wichita Falls**

**Wichita Falls Clinic**

**Wichita Falls State Hospital**

**Shannon Hospital, San Angelo, Texas**



# **School of Graduate Studies**

**General Information**

**Admission to the Graduate School**

**Graduate Programs**

**General Requirements for the  
Masters Degree**



# School of Graduate Studies

ELBERT L. DICKERSON, *Dean*  
114 Hardin Administration Building

## GRADUATE FACULTY

BIOLOGY — Beyer, Dalquest, Grimes, Horner  
BUSINESS ADMINISTRATION — Althaus, Harmel, Kane, Kreiselmaier, Krienke, Mad-  
era, Ramser, Welch  
EDUCATION — Barber, Darter, Dickerson, Furr, C. Hill, T. B. Hill, Newton, Richard-  
son, Smith, Steph  
ENGLISH — Brown, Campbell, Carpenter, Hoggard, Kyper, McBroom, Ramos,  
Stewart, Taylor  
HISTORY — Becker, Hendrickson, Hewitt, Kindig, King, Monahan, Neighbours,  
Powers  
MATHEMATICS — Hinds, Huffman, Meux, Williams  
MUSIC — Hough, Hughes, Maxwell  
PHYSICAL EDUCATION — Deupree, Dudley, Flatt, Henderson, Stockton  
POLITICAL SCIENCE — Alexander, Martin, Paik, Sabota  
PSYCHOLOGY — Hensley, Holliman, Wilson  
SPEECH AND DRAMA — DeCamp, Gerlach, Kable

## GRADUATE DEGREES OFFERED

Master of Arts in English, history, political science, psychology and speech  
Master of Business Administration  
Master of Education in elementary, secondary, counseling, reading, school  
administration and special education  
Master of Music  
Master of Music Education  
Master of Science in biology and mathematics  
Master of Science in Physical Education

## GENERAL INFORMATION

### AUTHORIZATION

The Graduate School of Midwestern State University was authorized by the Board of Directors January 18, 1952.

### ADMINISTRATION

A Graduate Council, appointed by the President of the University, determines the policies of the Graduate School. The policies established by the Graduate Council are administered by the Dean of the Graduate School.

### APPLICABILITY OF CATALOG REGULATIONS

The student is bound only by the requirements of the catalog in force at the time his degree plan is given final approval. The student may choose to fulfill the requirements of a subsequent catalog. In either case, all courses taken for graduate credit and to be counted toward the degree must have been completed within the six-year limit.

**RESPONSIBILITY OF THE STUDENT**

The graduate student accepts full responsibility for knowing and fulfilling all of the general and specific regulations and requirements for admission to graduate standing and for completing the chosen program of study. For that reason, it is imperative that the incoming student be familiar with all of the graduate regulations contained in this bulletin and completes them on schedule and in the manner required.

**GRADUATE PROGRAMS**

**Major and Minor Programs Offered:** Graduate majors are offered in biology, business administration, counseling, elementary education, reading education, secondary education, school administration, special education, English, history, mathematics, music, music education, physical education, political science, psychology, and speech. Graduate minors are available in biology, business administration, elementary education, educational foundations, reading education, secondary education, English, history, mathematics, music, physical education, political science, psychology, speech and drama.

**RESIDENCE REQUIREMENT**

All candidates for the master's degree must complete the following residence requirement, including the last six hours in residence at Midwestern State University:

| <b>Program</b>  | <b>Residence Requirement</b> |
|-----------------|------------------------------|
| 30 hour program | 24                           |
| 36 hour program | 30                           |
| 42 hour program | 36                           |
| 45 hour program | 39                           |

**TRANSFER OF CREDIT**

There is no automatic transfer of credit earned at another institution; but in general, a maximum of six semester hours of approved residence graduate work completed at another accredited graduate school may be accepted for credit. The graduate student must secure the approval of the Dean of the Graduate School at Midwestern State University prior to registration for the course or courses at another institution.

Extension work or work by correspondence is not accepted for graduate credit.

**SECOND MASTER'S DEGREE**

A graduate student who has previously completed a master's degree may apply not more than six semester hours of applicable credit toward a second master's degree provided that it meets the time limit for a graduate program stated below. The graduate credit applied to the second master's degree must be approved by the appropriate departmental chairman and the Dean of the Graduate School.

**TIME LIMIT FOR COMPLETION OF A GRADUATE PROGRAM**

All course work presented in fulfillment of the requirements for a master's degree must have been completed within a period of six years. Courses



completed more than six years prior to graduation date may be repeated unless the student evidences competency through examination. Only the Graduate Council can approve an extension to the time limit. A proportionately longer period of time is granted for programs requiring more than 36 graduate hours.

### **COURSE LOAD**

1. **Full-time Graduate Student:** 16 semester hours is the maximum course load for a graduate student in a fall or spring semester; six semester hours of course work is the maximum course load for a summer term. The minimum load for a full-time graduate student is nine graduate semester hours.

2. **Teaching Assistant:** A teaching assistant is limited to a maximum of nine semester hours per semester.

3. **Fully-employed Graduate Student:** Three semester hours of course work per semester is the recommended course load for a fully-employed student. Special permission from the Dean of the Graduate School must be secured before a fully-employed graduate student may enroll for more than three semester hours.

### **GRADING SYSTEM**

1. **Letter Grades:** Grades of A, B, C, D, F, I, W and X are recorded for graduate courses. Graduate students may receive credit for grades of A, B and C provided that a grade average of B, figured independently for the major and minor fields, is maintained. Grades in courses transferred from other institutions may not be included in figuring a grade average.

2. **X Grade:** X is the grade used to indicate that a thesis is in progress, but not complete. When the thesis is complete, a letter grade is reported.

3. **Removal of an I Grade:** Graduate students enrolled in 5000 and 6000 level courses have a 90-day limitation from the beginning of the next semester or summer term for making up an I, incomplete grade. Graduate students enrolled in 3000 and 4000 level courses have the same limitation on removal of an I of 30 days from the end of the semester or summer term as undergraduates.

4. **Non-Degree Standards:** The graduate non-degree student must maintain fourth-year academic standards. The academic performance of part-time students will be evaluated when the student has accumulated at least 12 semester hours.

### **TEACHING ASSISTANTSHIPS**

Qualified graduate students with acceptable scores on the Graduate Record Examination are eligible for consideration as teaching assistants. Assistantships are usually available in those fields in which graduate study is offered.

Teaching assistants normally teach six semester hours or devote from 15 to 20 hours weekly to laboratory instruction, grading papers and other services to their department. Teaching assistantships are not usually available during the summer term.

**GRADUATE WORK TAKEN AS AN UNDERGRADUATE STUDENT**

A senior who lacks 12 semester hours or less to graduate may enroll for a course or courses carrying graduate credit providing he makes request prior to the date of registration in the courses.

The request must be approved by the chairman of the student's major department, the chairman of the department in which the course is to be taken and the Dean of the Graduate School.

**CHANGE OF ADDRESS**

Any change of a student's address must be reported immediately to the office of the Dean of the Graduate School and the Office of the Registrar.

## **ADMISSION TO THE GRADUATE SCHOOL REQUIREMENTS**

All applicants with a bachelor's degree from a regionally accredited institution of higher education who plan to enroll for either graduate or undergraduate level courses with degree or non-degree status must complete the following steps:

1. **Application for Graduate Admission:** File the application for admission in the office of the Dean of the Graduate School at least three weeks prior to registration. Prospective graduate students who file later may experience delay and inconvenience in registering.

2. **Official Transcripts:** Request the Registrar of the institution conferring the bachelor's degree to forward a copy of the official transcript showing all undergraduate work to both the office of the Dean of the Graduate School and the Registrar at Midwestern State University.

Students who register before the transcripts have arrived will file an Application for Temporary Admission which is valid for two weeks only. Students who register in this manner assume all responsibility for course prerequisites and eligibility.

3. **Physical Examination:** Have a physical examination at the time of initial enrollment. This required physical examination report, completed by a legally qualified physician, must be on file with the university nurse prior to the student receiving a registration packet. Only students attending summer school are exempt, but not upon enrolling in a long semester.

4. **TOEFL for Foreign Applicants:** Foreign applicants must submit acceptable scores (550 or above recommended) on the Test of English as a Foreign Language (TOEFL) before admission to the Graduate School is granted. All expenses of the test are to be borne by the applicant.

**STATUS OF GRADUATE STUDENTS**

All students taking courses beyond the bachelor's degree are placed in one of two programs according to the choice shown on the Application for Graduate Admission.

1. **Degree Program:** The degree program is to be selected by students who wish to work toward a master's degree.

2. **Non-Degree Program:** The non-degree program is to be selected by students who do not wish to work toward a master's degree, but who desire additional courses for professional improvement, teacher certification, vocational advancement or personal satisfaction.

#### **ADMISSION TO THE DEGREE PROGRAM**

The following conditions prescribed by the Graduate Council must be met before unconditional admission to graduate study is granted:

1. **Bachelor's Degree:** A bachelor's degree from a college or university approved by a regional accrediting agency.

2. **Undergraduate Background:** An academic undergraduate course background in the proposed major and minor fields.

3. **Undergraduate Grade Average:** An undergraduate grade average of B in the proposed major and minor fields.

4. **GRE:** An acceptable score on the Graduate Record Examination. The GRE is designed to provide information concerning the educational background and the general scholastic ability of the student. The results of this examination will also be used for guidance in planning the degree program and may become the basis for requiring additional preparation on the part of the student.

The Aptitude Test provides a measure of general scholastic ability at the graduate level. It yields two scores: verbal ability and quantitative ability. Comprehensive achievement tests available in different fields of study, known as Advanced Tests, are designed to measure the student's achievement and ability to work in his major field of concentration.

Any student proposing to major in business administration who has previously taken the Graduate Management Admission Test (GMAT) (formerly ATGSB) may request permission to substitute the GMAT for the GRE by submitting GMAT scores to the Graduate Dean.

Minimum standards set by the Graduate Council are based on the Educational Testing Service graduate norms.

Information concerning test fees and registration for the GRE may be secured from the Student Personnel Office.

**Conditional Admission to the Graduate School:** Conditional admission to the graduate school may be imposed because of weakness in the applicant's preparation, either in grades or in course background. Courses prescribed for the removal of conditions should be taken first, although, if the conditions are not extensive, courses for graduate credit may be taken concurrently.

Admission to graduate study does not imply admission to candidacy for the master's degree. The Dean of the Graduate School will notify the applicant of his admission to graduate study.

**ADMISSION TO THE NON-DEGREE PROGRAM**

The non-degree student at Midwestern State University is under the jurisdiction of the Dean of the Graduate School.

The non-degree student is required to register only for the course or courses desired and not required to follow a detailed degree plan as outlined for degree-seeking students. However, prerequisites for the courses must have been fulfilled.

The student is required to sign a Declaration of Non-Degree Status, and waives the right to automatically apply the courses taken toward a master's degree.

A non-degree student with an acceptable academic record and satisfactory Graduate Record Examination scores may apply for admission to a master's degree program at any time. Courses taken for graduate credit by a non-degree student may be applied to a master's degree program subject to:

1. Approval of the chairman of the student's major department.
2. Approval of the Dean of the Graduate School.

The six-year limit for completion of the master's degree will apply to all proposed courses.

No non-degree student shall be permitted to enroll in a cumulative total of more than 18 semester hours of graduate work until he has submitted acceptable Graduate Record Examination scores, or declared his academic objective with the Graduate Office.

**GENERAL REQUIREMENTS FOR  
THE MASTER'S DEGREE****MASTER'S DEGREE PLAN**

The Master's Degree Plan is issued to the student by the Dean of the Graduate School. It is the result of an examination of the student's academic background in the proposed major and minor fields by the chairmen of the departments concerned. It outlines any requirements yet to be met before unconditional admission to graduate study is granted, and it gives the recommended program of study.

The Master's Degree Plan is to be retained for reference until the degree is completed.

**PROGRAM REQUIREMENTS**

All applicants for the master's degree must enroll in one of two programs of study:

1. **Thesis Program.** The thesis program requires a minimum of 24 semester hours of approved course work and a six-hour thesis.
2. **Non-Thesis Program.** The non-thesis program requires a minimum of 36 semester hours of approved course work and a substantial research paper in the student's major field showing his ability to do acceptable research and to report it clearly and concisely in proper form.

To help determine whether a thesis or non-thesis program is to be followed, the student should examine the specific requirements listed in the university catalog and consult his department chairman and the Dean of the Graduate School.



**Distribution of Courses.** Candidates for a master's degree must distribute the courses between the major and minor fields in the manner prescribed in the specific requirements for each degree as listed for each department in the university catalog.

The Master of Arts, Master of Business Administration, Master of Music, Master of Science or Master of Education degree with a major in counseling do not require a minor field.

**Prerequisite for Major and Minor Programs.** Before beginning a major program, a student must present a minimum of 24 semester hours of approved undergraduate courses, of which 12 must be advanced. Before beginning a minor program, a student must present a minimum of 15 semester hours of approved undergraduate courses, of which six must be advanced.

Insufficient hours in either major or minor may be absolved by doing "leveling work." Courses taken as leveling work do not count toward the graduate degree.

### **COURSE REQUIREMENTS**

Approximately one-half of the semester hours required for a master's degree must be selected from courses exclusively for graduate students. A maximum of 18 hours of approved 3000 and 4000 level courses will be accepted, of which no more than six semester hours may be in the 3000 level courses. To determine which 3000 or 4000 courses are eligible for graduate credit, refer to that department's section of the catalog. No 1000 or 2000 level courses may be taken for graduate credit.

A student registering in undergraduate 3000 or 4000 courses for graduate credit must complete additional requirements above those made of undergraduate students in the same courses. Extra reference reading, assignments of an investigative or research type and research papers are examples of additional requirements.

A student on a 30-hour program may apply on his degree six semester hours of problem courses. A student on a 36-hour program may apply nine semester hours of problem courses on his degree.

A course taken for undergraduate credit cannot be counted as graduate credit regardless of the status of the student at the time the course was taken.

All class schedules must be approved by the Dean of the Graduate School at the time of enrollment.

### **GRADUATE ADVISORY COMMITTEE**

**1. Appointment of the Committee:** After all leveling work and other conditions, if any, have been completed, and a total of 12 semester hours toward the degree, with a B average or better in both the major and minor fields, have been earned, the graduate student should see the Dean of the Graduate School for the appointment of his Graduate Advisory Committee.

The Graduate Advisory Committee assists in planning the remainder of the student's program including enrollment, revision of degree plan, admission to candidacy, thesis title, thesis approval, type of research problem, and the final oral comprehensive examination.



2. **Successors to the Original Committee:** When a member of a Graduate Advisory Committee terminates employment with the university, the chairman of his department and the Dean of the Graduate School shall immediately appoint a successor.

3. **Substitutions on the Committee:** If a member of a Graduate Advisory Committee is absent during the time when his approval, disapproval or advice is needed by the student to meet officially scheduled deadlines (such as during the three weeks after the reading copy of the thesis has been submitted, during the time the officially scheduled oral examination or at the time of thesis approval), the chairman of the member's department shall appoint a substitute.

4. **Thesis Regulations for Committee:** After the student submits his reading copy of the thesis, at least six weeks prior to expected graduation date, the committee shall return it to him with any editorial comments within three weeks. No member shall hold the thesis longer than one week.

**Note:** Until the student receives notice of the appointment of his Graduate Advisory Committee, he should consider the chairman of his major department his adviser.

#### **ADMISSION TO CANDIDACY**

After the student has met with his Graduate Advisory Committee, he should file an Application for Admission to Candidacy in the office of the Dean of the Graduate School.

Admission to candidacy will be granted when the Graduate Advisory Committee has recommended the applicant for admission and the recommendation has been approved by the Graduate Council. The student will be notified of his admission to the candidacy.

#### **FOREIGN LANGUAGE REQUIREMENT**

1. **Master of Arts:** Candidates for the degree Master of Arts, must give evidence of having completed the equivalent of the Midwestern State University language requirement for the Bachelor of Arts degree. With the approval of the department chairman, 12 hours from mathematical sciences may be substituted for the foreign language requirement. These courses must be approved by the Graduate Dean.

2. **Master of Science:** Candidates for the degree Master of Science must give evidence of having completed the equivalent of the Midwestern State University language requirement for the Bachelor of Science degree.

The foreign language requirement may be absolved by successfully completing a reading knowledge examination.

Master of Business Administration, Master of Education, Master of Music, Master of Music Education, Master of Science in Physical Education, and Master of Science (with a math major) degrees do not require a foreign language.

#### **THESIS OR RESEARCH REQUIREMENT**

1. **Form for Thesis and Research Papers:** The chairman of each department shall choose the style manual most authoritative for his field.

Recommended manuals of style are **A Manual for Writers** by Kate L. Turabian and **Form and Style in Thesis Writing** by William Giles Campbell. Each department in the School of Sciences and Mathematics may add its own manual of style.

2. **Thesis:** Students following a thesis program must complete the steps listed below:

a. **Contact with Graduate Advisory Committee:** The student should keep in close touch with his Graduate Advisory Committee during the preparation of the thesis.

b. **Title and Approval Pages:** The title pages and approval pages of all theses must be uniform. Examples of the form for each are contained in the Graduate Bulletin.

c. **Abstract:** A typewritten abstract in standard form of not more than two pages must be prepared. The abstract pages are not numbered and should be inserted at the back of the thesis or behind the bibliography of the thesis.

d. **Thesis Enrollment:** Original enrollment in Thesis 6983; second enrollment in Thesis 6993; all subsequent enrollments in 6993. This enrollment is required each term until the thesis is successfully completed or a leave of absence is granted by the Dean of the Graduate School.

e. **Thesis Deadlines:** The student must present a reading copy of the thesis to the Graduate Advisory Committee not later than six weeks prior to the date of expected graduation.

Four copies of the final thesis which is to be bound must be turned in to the office of the Dean of the Graduate School with the signed approval of the Graduate Advisory Committee not later than two weeks prior to the end of the semester or summer term in which all work for the degree is completed.

The student must pay the binding fee for the four copies at the Business Office and must present a receipt when the final copies for binding are submitted to the office of the Dean of the Graduate School.

The student must leave a mailing address with the office of the Dean of the Graduate School for receipt of his bound copy of the thesis.

3. **Research Paper:** Students following a non-thesis program, presenting a research paper, must complete the steps listed below:

a. **Title and Approval Pages:** The title pages and approval pages of all research papers must be uniform. Examples of the form of each are contained in the Graduate Bulletin.

b. **Research Paper Deadline:** The student must submit the research paper with the signed approval of the instructor and the chairman of his Graduate Advisory Committee to the office of the Dean of the Graduate School not later than six weeks prior to graduation. No student will be cleared for the final oral comprehensive examination by the Graduate Dean until an acceptable research paper has been filed with the Graduate Office.

**APPLICATION FOR GRADUATION**

Early in the last semester or summer term (see Academic Calendar) before graduation, the student should file an Application for Graduation in the Office of the Dean of the Graduate School. The student must pay the graduation fee to the Business Office and present the receipt to the office of the Dean of the Graduate School.

The cap, gown, and hood must be ordered through the campus bookstore.

**FINAL ENROLLMENT**

All students must register for the final semester or summer term required for the completion of work for the master's degree.

**COMPREHENSIVE EXAMINATION**

All candidates for the master's degree are required to successfully complete an oral comprehensive examination. The student must make a request to the Dean of the Graduate School to be cleared to take the final oral comprehensive examination.

**Date for Examination.** At least six weeks before graduation the student should set a date with the Graduate Advisory Committee for his comprehensive examination.

The examination must be completed at least three weeks before graduation. If a thesis is presented, the examination will be given after approval of the thesis has been granted by the Graduate Advisory Committee.

**Report on the Examination.** The chairman of the Graduate Advisory Committee will file in the office of the Dean of the Graduate School a report on the quality of the comprehensive examination, signed by the members of the Graduate Advisory Committee. The report will also contain a recommendation for or against approval of the candidate for graduation.

If unsuccessful in the examination, the candidate may not apply to the Graduate Council for re-examination until the semester following the initial examination. Before the petition is granted, evidence of additional preparation must be presented.

**COMMENCEMENT ATTENDANCE**

Degrees earned in the Graduate School are conferred at the annual spring commencement. The candidate must be present to receive the degree unless he has been excused by the President of the University.

# **UNIVERSITY FACULTY**

**Current Full Time**

**Associate**

**Emeriti**





# The University Faculty

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1976-1977

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The date indicates year of original appointment.

- BARKER, JOHN G., **President**, 1974.  
B.S., Concord College; M.S., University of Maryland; Ph.D., Virginia Polytechnic Institute and State University.
- ALEXANDER, JIMMY R., **Assistant Professor of Political Science**, 1972.  
A.A., Cooke County Junior College; B.A., M.A., East Texas State University; Ph.D., The American University.
- ALLEN, JAMES L., **Assistant Professor of Journalism**, 1967.  
B.A., University of Oklahoma; M.A., State University of Iowa.
- ALTHAUS, MARLIN CLINTON, **Associate Professor of Accounting**, 1973.  
B.S., Texas A&M University; M.B.A., University of Texas at Austin; Ph.D., North Texas State University; C.P.A., Texas; C.M.A.
- ANDERSON, JERRY, **Assistant Professor of Military Science**, 1974.  
Captain, United States Army; B.B.A., M.B.A., Texas Tech University.
- ASH, RICHARD M., **Associate Professor of Art**, 1968.  
B.F.A., M.F.A., Wichita State University.
- ATKINSON, WILLIAM, **Assistant Professor of Music**, 1974.  
B.M., M.M., University of Michigan.
- AVEGNO, HAMILTON P., **Assistant Professor of English**, 1973.  
Ph.B., Loyola University of New Orleans; M.A., Tulane University.
- BACKHAUS, F. J., **Associate Professor of Foreign Languages**, 1967.  
LL.B., Southern Methodist University; LL.D., University of Heidelberg, Germany.
- BAKER, CHERRY A., **Assistant Professor of Business Administration**, 1967.  
B.B.A., Midwestern State University; M.B.A., West Texas State University.
- BARBER, WILLIAM H., **Assistant Professor of Education**, 1972.  
B.A., M.A., Ed.S., University of Alabama; Ed.D., University of Southern Mississippi.
- BARTON, HENRY W., **Professor of English**, 1940.  
B.A., M.A., The University of Texas at Austin; M.A., Southern Methodist University.
- BECKER, ROBERT, **Assistant Professor of History**, 1970.  
B.A., M.A., Ph.D., University of Colorado.
- BELL, LOANN, **Instructor in Nursing**, 1976.  
B.S., University of Wisconsin; M.S., University of Minnesota.
- BEYER, ARTHUR F., **Professor and Chairman of the Department of Biology**, 1950.  
B.S., Ohio University; M.S., Ohio State University; Ph.D., University of Cincinnati.
- BOLAND, IVY EDDLEMON, **Professor of Music**, 1946.  
B.M., M.M., Chicago Musical College.

- BOLAND, WILLIAM V., **Professor of Music**, 1949.  
B.F.A., University of South Dakota; B.M., M.M., Chicago Musical College.
- BOND, THOMAS A., **Vice President for Academic Affairs**, 1976.  
B.A., University of Missouri; M.S., Ph.D., University of Oklahoma.
- BOSTON, HORACE O., **Assistant Professor of Dental Hygiene**, 1974.  
B.S., Southern University; D.D.S., Meharry Medical College.
- BOSWELL, JAMES L., **Associate Professor of Biology**, 1965.  
B.S., East Central State College (Oklahoma); M.S., University of Oklahoma; Ph.D., Texas A&M University.
- BOWLES, BETTY, **Assistant Professor of Nursing**, 1968.  
B.S.N., Incarnate Word College; M.S., Texas Woman's University.
- BRACKEEN, BILLY C., **Assistant Professor of Engineering Drawing**, 1958.  
B.S., M.Ed., East Texas State University.
- BRADLEY, ROBERT C., **Instructor in Military Science**, 1975.  
Sergeant First Class, United States Army.
- BROWN, HARRY M., **Professor of English and Dean of the School of Humanities and Social Sciences**, 1966.  
Th.B., Malone College; B.A., Baldwin-Wallace College; M.A., Ph.D., Western Reserve University.
- BULLOCK, BETTY J., **Registrar**, 1955.  
B.B.A., M.A., Midwestern State University.
- CAMPBELL, CARL DAN, **Assistant Professor of Business Administration**, 1975.  
B.B.A., North Texas State University; J.D., St. Mary's University; C.P.A. Texas.
- CAMPBELL, JEFFERSON HOLLAND, **Professor and Chairman of the Department of English**, 1974.  
B.A., B.D., Southern Methodist University; Ph.D., Duke University.
- CAPPS, OSCAR EMERSON\*, **Assistant Professor of Education**, 1970.  
B.S.E., Northeastern State College; M.E., University of Arkansas.
- CARPENTER, EMILY, **Associate Professor of English**, 1967.  
B.A., Centre College; M.A., Ph.D., University of Indiana.
- CHAGOLY, ANDRAS J., **Instructor in Dental Hygiene**, 1976.  
B.S., Texas A&M University; D.D.S., University of Texas Dental School at Houston.
- CHAGOLY, CYNTRA, **Instructor in Dental Hygiene**, 1976.  
Certificate of Dental Hygiene, University of Texas, Houston Dental Branch at Houston.
- CHURCH, SANDRA J., **Instructor in Nursing**, 1974.  
B.S., Texas Woman's University.
- CLARK, ROBERT E., **Assistant Professor of Sociology**, 1973.  
B.A., M.A., Baylor University; Ph.D., University of Montana.
- COLEE, PHILIP S., **Assistant Professor of Anthropology**, 1967.  
B.A., M.S., Florida State University.
- COWART, GWENDOLYN, **Assistant Professor of Speech and Hearing Therapy**, 1973.  
B.S.E., Texas Tech University; M.E., West Texas State University; M.S., North Texas State University.
- CRAVENS, JOHN N., **Professor of History**, 1952.  
B.S., Stephen F. Austin State University; M.A., Ph.D., University of Texas at Austin.

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\*On leave of absence.

- CREWS, NORVAL DEE, **Assistant Professor of Music**, 1970.  
B.M., M.M.E., North Texas State University.
- CROSSNOE, THOMAS G., **Professor and Chairman of the Department of Art**, 1966.  
B.A., M.A., George Peabody College for Teachers.
- CUNNINGHAM, ELIZABETH, **Instructor in Nursing**, 1975.  
B.S.N., University of Utah.
- CUNNINGHAM, JACK EDWARD, **Assistant Professor of Music**, 1973.  
B.M., M.M., University of Illinois.
- DALQUEST, WALTER W., **Professor of Biology**, 1952.  
B.S., M.S., University of Washington; Ph.D., Louisiana State University.
- DARTER, CLARENCE L., JR., **Professor of Education and Dean of the School of Education**, 1966.  
B.S., Texas Tech University; M.Ed., Trinity University; Ed.D., Texas Tech University.
- DAVIS, LARRY HILMAN, **Assistant Professor of Art**, 1969.  
B.S., Weber State College; M.F.A., Utah State University.
- DeCAMP, JACQUELINE, **Professor of Speech and Drama**, 1967.  
B.S.E., Northeastern State College; M.A., Northwestern University; Ph.D., University of Michigan.
- DEERING, J. R., **Instructor and Chairman of the Department of Biblical History and Literature**, 1975.  
B.A., Mobile College; M.Div., Southwestern Baptist Theological Seminary.
- DEUPREE, ANNIE JO, **Professor of Health, Physical Education and Recreation**, 1967.  
B.S., M.H.P.E.R., North Texas State University; Ph.D., Texas Woman's University.
- DICKERSON, ELBERT L., **Professor of Education, Dean of the Graduate School and Associate to Vice President for Academic Affairs**, 1958.  
B.A., Henderson State Teachers College; M.Ed., Ed.D., University of Arkansas.
- DOMI, DOUGLAS, **Instructor in Radiologic Technology**, 1976.  
RT (ARRT) Certified by the American Registry of Radiologic Technologists; B.S.R.T., Midwestern State University.
- DOWLEARN, LEONARD P., **Assistant Professor of Secretarial Administration**, 1955.  
B.S., Abilene Christian University; M.B.E., North Texas State University.
- DUDLEY, PATRICK H., **Associate Professor of Health, Physical Education and Recreation**, 1969.  
B.S., M.Ed., Sam Houston State University; Ph.D., Texas A&M University.
- EOFF, NICKI LAVONNE, **Assistant Professor of Health, Physical Education and Recreation**, 1970.  
B.S.E., Abilene Christian University; M.Ed., Texas A&M University.
- EPP, CHIROLD DELAIN, **Associate Professor and Chairman of the Department of Physics**, 1969.  
B.S., Northwestern State College; M.S., University of Oklahoma; Ph.D., University of Texas at Austin.
- FATHEREE, BARBARA SUSAN, **Instructor in Foreign Languages** (one year appointment only), 1976.  
B.A., Oklahoma State University; M.A., Middlebury College.
- FLATT, DONALD, **Associate Professor of Health, Physical Education and Recreation and Director of Intramurals**, 1963.  
B.S., Midwestern State University; M.Ed., East Texas State University; Ed.D., North Texas State University.

- FLAVIN, MICHAEL JOHN, **Assistant Professor of Political Science**, 1969.  
B.S., M.A., St. Louis University.
- FOSTER, JAMES DON, **Assistant Professor of Business Administration**, 1967.  
B.B.A., M.S., Texas A&I University.
- FURR, ONETA ROBERTS, **Professor of Education**, 1950.  
B.S., McMurry College; M.S., Ed.D., North Texas State University.
- GARCIA, GUILLERMO, **Associate Professor of Foreign Languages**, 1965.  
B.A., Midwestern State University; M.A., Inter-American University at Saltillo, Coahuila, Mexico; Ph.D., National Autonomous University of Mexico.
- GEORGE, BARBARA JEAN, **Program Coordinator and Instructor in Medical Technology**, 1975.  
B.S.M.T., North Texas State University.
- GERLACH, MICHAEL C., **Associate Professor of Speech and Drama**, 1969.  
B.S., Fairleigh Dickinson University; M.A., Ph.D., University of Michigan.
- GRANT, ROBERT J., **Assistant Professor of Political Science**, 1975.  
B.S., M.P.A., University of Arizona.
- GREER, ROBERT GLENN, **Instructor in Art**, 1972.  
B.A., Allegheny College; M.A., University of Kansas.
- GRIMES, JOHN V., **Associate Professor of Biology**, 1970.  
B.S., M.S., Northern Illinois University; Ph.D., University of Utah.
- GROOMS, EMILY R., **Instructor in Sociology**, 1973.  
B.A., M.A., Memphis State University.
- HARMEL, ROBERT M., JR., **Assistant Professor of Economics and Dean of the School of Business Administration and Economics**, 1970.  
B.S., Texas Tech University; M.S., Ph.D., Iowa State University.
- HARVILL, MELBA S., **Director of Libraries and Assistant Professor**, 1967.  
B.A., M.A., M.L.S., North Texas State University.
- HENDERSON, JOE M., **Professor and Chairman of the Department of Health, Physical Education and Recreation**, 1965.  
B.S.Ed., M.Ed., Texas Tech University; Ed.D., North Texas State University.
- HENDRICKSON, KENNETH E., JR., **Professor and Chairman of the Department of History**, 1970  
B.A., M.A., State University of South Dakota; Ph.D., University of Oklahoma.
- HENSCHEL, DONALD F., JR., **Assistant Professor of Speech and Drama**, 1970.  
B.S., Dickinson State College; M.A., Colorado State University.
- HENSLEY, JOHN HIGGINS, **Assistant Professor of Psychology**, 1973.  
B.A., University of North Carolina; M.S., Ph.D., Tulane University.
- HEWITT, HARRY P., **Associate Professor of History**, 1967.  
B.S., M.A., Ph.D., University of Utah.
- HILL, CHARLES H., **Assistant Professor of Education**, 1972.  
B.A., Whitworth College; M.S., Oregon College of Education; Ed.D., Washington State University.
- HILL, T. BARLOW, **Professor and Chairman of the Department of Education**, 1964.  
B.S., Midwestern State University; M.Ed., Ed.D., North Texas State University.
- HINDS, WILLIAM E., **Assistant Professor of Mathematics**, 1975.  
B.A., University of Texas at Austin; M.A., University of Texas at Arlington; Ph.D., Oklahoma State University.



- HOBBINS, WELDON MASON, **Instructor in Radiologic Technology**, 1975.  
RT (ARRT) Certified by the American Registry of Radiologic Technologists.
- HOFFMAN, THOMAS P., **Assistant Professor of English**, 1968.  
B.S.Ed., M.A., Ball State University.
- HOGGARD, JAMES M., **Associate Professor of English**, 1966.  
B.A., Southern Methodist University; M.A., University of Kansas.
- HOLLIMAN, NEIL B., **Professor of Psychology and Chairman of the Department of Psychology, Sociology, and Anthropology**, 1965.  
B.A., M.A., Ph.D., University of Arkansas.
- HOLVERSON, EDWIN L., **Professor of Physics**, 1967.  
B.A., Humbolt State College; M.S., Ph.D., Arizona State University.
- HORNER, NORMAN V., **Associate Professor of Biology**, 1967.  
B.S., M.S., North Texas State University; Ph.D., Oklahoma State University.
- HOUGH, RONALD, **Associate Professor of Music**, 1971.  
B.A., B.M., Wheaton College; M.M., Southwestern Baptist Theological Seminary, D.M.A., University of Illinois.
- HUFFMAN, LOUIE C., **Professor and Chairman of the Department of Mathematical Sciences**, 1955.  
B.S., M.Ed., Midwestern State University; M.A., Ph.D., University of Texas at Austin.
- HUGHES, E. KENT, **Professor of Music**, 1953.  
B.M., M.M., Eastman School of Music; D.M.A., University of Texas at Austin.
- INMAN, CHARLENE, **Assistant Professor of Nursing**, 1970.  
Diploma, Mather School of Nursing; B.S., M.Ed., Midwestern State University; B.S.N., Texas Christian University; M.S., Texas Woman's University.
- INMAN, JAMIE, **Instructor in Music**, 1974.  
B.M.E., University of Oklahoma; M.M.E., Midwestern State University.
- JENNINGS, TOMMY JEFF, **Assistant Professor of Music and Choral Director**, 1975.  
B.M.E., M.A., Eastern New Mexico University.
- JEWELL, NANCY L., **Program Coordinator and Associate Professor of Dental Hygiene**, 1972.  
R.D.H., B.S., University of Iowa; M.A., University of South Dakota.
- JOHNSON, MARY ELLA, **Reference Librarian and Instructor**, 1975.  
B.A., M.L.S., North Texas State University.
- JONES, CHARLES F., **Instructor in Education**, 1973.  
B.A., M.E., McNeese State University.
- JONES, SHERRY GILL, **Assistant Professor of Health, Physical Education and Recreation**, 1967.  
B.S., M.S., North Texas State University.
- JORGENSEN, ROBERT D., **Assistant Professor of Music and Director of Bands**, 1976.  
B.S., University of Illinois at Urbana-Champaign; M.M., Michigan State University.
- KABLE, JUNE E., **Professor and Chairman of the Department of Speech and Drama**, 1967.  
B.M., Baylor University; M.E., Sul Ross State University; Ed.D., North Texas State University.
- KANE, TIM D., **Associate Professor of Economics**, 1972.  
B.S., Stephen F. Austin State University; M.A., Ph.D., University of Texas at Austin.

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\*On leave for fall semester



- KINDIG, EVERETT W., **Assistant Professor of History**, 1971.  
B.A., M.A., Ph.D., Stanford University.
- KING, JAMES R., **Associate Professor of History**, 1968.  
B.A., Loras College; M.A., Ph.D., University of Iowa.
- KISNER, HOWARD DEAN, **Assistant Professor of Physics**, 1976.  
B.S., Little Rock University; M.S., Ph.D., University of Arkansas.
- KLEIN, RUDOLF M., **Associate Professor and Chairman of the Department of Foreign Languages**, 1968.  
B.S., University of Wisconsin; Ph.D., Rice University.
- KREISELMAIER, KURT W., **Assistant Professor of Business Administration**, 1970.  
B.S., North Dakota State University; M.B.A., Southern Methodist University; Ph.D., Massachusetts Institute of Technology.
- KRIENKE, ALBERT B., **Professor of Economics**, 1965.  
B.S., M.S., University of Florida; Ph.D., Texas A&M University.
- KYPER, PETER THOMAS, **Assistant Professor of English**, 1974.  
B.A., University of Pittsburgh; Ph.D., Auburn University.
- LEWIS, GARY REED, **Assistant Professor of Music**, 1971.  
B.M., Eastman School of Music; M.M., Michigan State University.
- LIFSEY, ROBERT J., JR., **Assistant Professor of Mathematics**, 1970.  
B.A., David Lipscomb College; M.S., Notre Dame University.
- LONG, ALFRED E., **Chief Instructor in Military Science**, 1976.  
Sergeant Major, United States Army.
- MADERA, F. ROBERT, **Professor and Chairman of the Department of Accounting**, 1951.  
B.S.B.A., Northwestern University; M.A., Drake University; D.B.A., Harvard University; C.P.A., Texas and Iowa.
- MARTIN, JAMES DAVID, **Associate Professor of Political Science**, 1970.  
B.A., Tarkio College; M.A., Ph.D., Southern Illinois University.
- MAW, GEORGE GLAYDE, **Instructor in Geology**, 1972.  
B.S., Weber State College; M.S., Utah State University.
- MAXWELL, DONALD, **Associate Professor and Chairman of the Department of Music**, 1971.  
B.A., Colgate University; B.M., Friends University; M.M., D.M.E., University of Oklahoma.
- McBROOM, ROBERT, **Associate Professor of English and Director of Division of Continuing Education**, 1969.  
B.A., University of Texas at Austin; M.A., Midwestern State University; Ph.D., Texas Tech University.
- McFARLAND, RUTH, **Associate Professor and Chairman of the Department of Nursing**, 1973.  
Diploma, King's Daughters Hospital School of Nursing; B.S.N.E., M.S.N. Service Adm., University of Texas at Austin.
- McWHORTER, GENEVA, **Assistant Professor of Secretarial Administration**, 1964.  
B.S., M.Ed., Abilene Christian University.
- MEUX, JOHN W., **Professor of Mathematics and Dean of the School of Sciences and Mathematics**, 1964.  
B.S., Henderson State College; M.S., University of Arkansas; Ph.D., University of Florida.
- MILAM, DORA G., **Instructor in Nursing**, 1976.  
B.S., M.S., Texas Woman's University.

- MIONE, JOSEPH, **Instructor in Psychology**, 1974.  
B.A., M.A., University of Texas at Austin.
- MOELLER, WARREN E., **Associate Professor and Chairman of the Department of Business and Secretarial Administration**, 1963.  
B.S. in Bus., M.B.A., University of Oklahoma.
- MONAHAN, FORREST D., JR., **Professor of History**, 1962.  
B.A., University of Oklahoma; A.M., Harvard University; Ph.D., University of Oklahoma.
- MONTGOMERY, JACQUETTA KAY, **Instructor in Secretarial Administration**, 1973.  
B.S., M.S., Oklahoma State University.
- MURPHY, TIMOTHY PATRICK, **Assistant Professor of Psychology**, 1975.  
B.A., North Dakota State University; Ph.D., Texas Tech University.
- MURPHY, TOM W., **Assistant Professor of Political Science**, 1968.  
B.A., American University.
- NEIGHBOURS, KENNETH F., **Professor of History**, 1955.  
B.A., M.A., Southern Methodist University; Ph.D., University of Texas at Austin.
- NEWTON, H. GENE, **Associate Professor of Education**, 1969.  
B.A., McMurry College; M.Ed., Ed.D., Texas Tech University.
- NOVAK, LYNN TAYLOR, **Visiting Assistant Professor of English** (Fall 1976 only).  
B.A., Centenary College; M.A., University of Michigan; Ph.D., University of Southern California.
- OLSON, ROBERT L., **Instructor in Foreign Languages**, 1974.  
B.A., Oklahoma State University; M.A., University of Rhode Island.
- PAIK, SEUNGGI, **Assistant Professor of Political Science**, 1975.  
B.A., Yonsei University; M.A., University of Dayton; Ph.D., Southern Illinois University.
- PALMA, ROBERT J., **Associate Professor of Chemistry**, 1972.  
B.S., New York State University at Buffalo; M.S., Wayne State University; Ph.D., Texas A&M University.
- PATTERSON, HOWARD Y., **Instructor in Health, Physical Education and Recreation and Soccer and Tennis Coach**, 1975.  
B.S., Springfield College; M.S.P.E., Midwestern State University.
- PIERCE, RICHARD LAWRENCE, **Assistant Professor of Military Science**, 1973.  
Captain, U.S. Army; B.A., M.S., Midwestern State University.
- POWERS, BARRY D., **Associate Professor of History**, 1969.  
B.A., San Francisco State College; Ph.D., University of Delaware.
- PREDA, MICHAEL A., **Assistant Professor of Political Science**, 1976.  
B.A., Wayne State University; M.A., East Texas State University; Ph.D., University of Oklahoma.
- PRIGMORE, NANCY, **Instructor in Medical Technology**, 1975.  
B.S., University of Southwestern Louisiana; M.S., University of Oklahoma.
- PRINCE, BRENDA J., **Instructor in Nursing**, 1976.  
B.S., Texas Woman's University.
- RAMOS, CHARLES, **Professor of English**, 1966.  
B.A., M.A., North Texas State University; Ph.D., University of Texas at Austin.

- RAMSER, CHARLES, **Associate Professor of Business Administration**, 1969.  
B.B.A., University of Texas at Arlington; M.B.A., University of Texas at Austin; Ph.D., North Texas State University.
- REEDER, MARJORIE, **Associate Professor of Accounting**, 1965.  
B.S., Northeastern State College (Oklahoma); M.B.A., University of Houston; C.P.A., Texas.
- RICHARDSON, JOE E., JR., **Assistant Professor of Education**, 1971.  
B.S., M.E., Stephen F. Austin State University; Ph.D., Texas A&M University.
- ROGERS, JESSE W., **Associate Professor and Chairman of the Department of Chemistry**, 1967.  
B.S., University of Texas at Arlington; Ph.D., Texas Christian University.
- ROWELL, C. W., **Assistant Professor of Mathematics**, 1965.  
B.S., North Texas State University; M.A., Louisiana State University.
- RUGGIA, MARIO, **Instructor in Biblical History and Literature**, 1976.  
B.A., North Texas State University; M.Th., Southern Methodist University.
- SABOTA, LEO M., **Professor and Chairman of the Department of Political Science**, 1969.  
B.A., University of Minnesota; M.A., Fletcher School of Law and Diplomacy; Ph.D., University of Tennessee.
- SCOTT, NANCY ANN, **Assistant Professor of Biology**, 1963.  
B.A., Hardin-Simmons University; M.S., Oklahoma State University.
- SHORT, WILLIAM N., JR.\*, **Instructor in Foreign Languages**, 1970.  
B.A., Harding College; M.A., North Texas State University.
- SIMONS, SHIRLEY, **Instructor in Nursing**, 1975.  
B.S., Texas Woman's University.
- SIMS, RAYMOND, **Assistant Professor of Physics**, 1963.  
B.S. in Engr. Phys., M.Engr. Phys., University of Oklahoma.
- SMITH, BILLY V., **Professor of Military Science**, 1976.  
Lt. Col., United States Army; B.S., Iowa State University; M.A., University of Georgia.
- SMITH, LEE A., **Professor of Education**, 1965.  
B.S., Central State College (Oklahoma); M.Ed., Ed.D., University of Oklahoma.
- SMITH, STEPHEN A., **Instructor in Biblical History and Literature**, 1975.  
B.A., M.A., Abilene Christian University.
- SODDERS, RICHARD P., **Instructor in Speech and Drama**, 1974.  
B.S.E., Southwest Texas State University; M.A., Louisiana State University.
- SOUTHARD, FRANK A., **Instructor in Sociology**, 1975.  
B.A., M.A., M.Phil., University of Kansas.
- SPITZ, JOANNE, **Instructor in Economics**, 1976.  
B.A., M.A., Northeastern University.
- STEFANELLI, RAYMOND D.\*, **Assistant Professor of Art**, 1970.  
B.S., Murray State University; M.F.A., University of Florida.
- STELDING, VICKI ANN, **Catalog Librarian and Instructor**, 1973.  
B.A., M.L.S., North Texas State University.
- STEPH, HARLAN J., **Professor of Education and Psychology**, 1943.  
B.S., M.S., North Texas State University; Ed.D., University of Colorado.
- STEWART, ALFRED D., JR., **Assistant Professor of English and Philosophy**, 1973.  
B.A., M.A., M.A., University of Oklahoma; Ph.D., University of North Carolina.

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\*On leave of absence.

- STOCKTON, GERALD, **Director of Athletics and Associate Professor of Health, Physical Education and Recreation**, 1970.  
B.S., M.S., Oklahoma State University; Ph.D., University of Utah.
- STONE, WILLIAM GERALD, **Assistant Basketball Coach, Faculty Director of Baseball, and Instructor in Health, Physical Education and Recreation**, 1976.  
B.A., B.S., McMurry College; M.E., Hardin-Simmons University.
- STRAIN, JAMES WILLIAM, **Assistant Professor of Mathematics**, 1969.  
B.S., U.S. Military Academy; M.T., North Carolina State University.
- SUND, ELDON H., **Professor of Chemistry**, 1967.  
B.S., University of Illinois; Ph.D., University of Texas at Austin.
- SYRUS, JERRY D., **Assistant Professor in Accounting**, 1975.  
B.B.A., McMurry College; M.S., Abilene Christian University.
- TAYLOR, ARVILLA K., **Associate Professor of English**, 1969.  
B.A., M.A., Ph.D., University of Texas at Austin.
- TAYLOR, DENCIL R., **Assistant Professor of Speech and Drama**, 1970.  
B.A., M.A.Ed., Northwestern State College.
- TITTLE, R. CHARLES, **Associate Professor of Accounting**, 1968.  
B.B.A., Midwestern State University; M.B.A., North Texas State University; C.P.A., Texas.
- TONKINSON, STEVEN EARL, **Assistant Professor of Music**, 1973.  
B.M., Midwestern State University; M.M., University of Oklahoma.
- TRILLI, KATHY, **Instructor in Dental Hygiene**, 1975.  
Certificate, A.S., Sheridan College (Wyoming).
- VAN GEEM, HENRY, **Assistant Professor of Business Administration**, 1964.  
B.B.A., Midwestern State University; M.B.A., North Texas State University.
- VIELKIND, JOHN N., **Assistant Professor of Philosophy**, 1974.  
B.A., St. Mary's Seminary; M.A., Ph.D., Duquesne University.
- VOLK, MARY E., **Assistant Professor of Foreign Languages**, 1967.  
B.A., Texas Christian University; M.A., University of New Mexico; Certificat d'Etudes Francaises, University of Paris.
- WAINSCOTT, GEORGE THOMAS, **Assistant Professor of Military Science**, 1974.  
Major, United States Army; B.A., M.A., Midwestern State University.
- WARNDOLF, JOSEPH, **Assistant Professor of Mathematics**, 1969.  
B.S., Arkansas Polytechnic College; M.A., North Texas State University.
- WATKINS, JACKIE LLOYD, **Professor and Chairman of the Department of Geological Sciences**, 1958.  
B.S., M.S., Southern Methodist University; Ph.D., University of Michigan.
- WEBB, LARRY L., **Instructor in Art** (One year appointment only), 1976.  
B.F.A., M.F.A., Wichita State University.
- WELCH, ROBERT G., **Professor and Chairman of the Department of Economics**, 1966.  
B.S., M.S., University of Wyoming; Ph.D., Oregon State University.
- WILLIAMS, C. RICHARD, **Professor of Mathematics**, 1964.  
B.S., University of Oklahoma; M.S., Oklahoma State University; Ph.D., University of Arkansas.
- WILLIAMS, LARRY EARL, **Assistant Professor of Sociology**, 1976.  
B.S., M.S., East Texas State University; Ph.D., Brigham Young University.
- WILLIAMS, RICKEY, **Associate Professor of Chemistry**, 1970.  
B.A., Ph.D., Texas Christian University.



WILSON, ROBERT A., **Assistant Professor of Psychology**, 1971.

B.A., College of Wooster; M.A., University of Akron; Ph.D., University of Houston.

WOODARD, MICHAEL CLOIS, **Assistant Professor of Military Science**, 1975.

Captain, United States Army; B.S., Hardin-Simmons University; M.E., Midwestern State University.

ZEMBROD, ANTON R., **Program Coordinator and Assistant Professor of Radiologic Technology**, 1972.

RT (ARRT) Certified by the American Registry of Radiologic Technologists; B.S.R.T., Midwestern State University.

ZOLNEROWICH, JOAN TROYANOS, **Instructor in Nursing**, 1973.

B.A., Brooklyn College; B.S.N., Columbia University; M.A., University of Oklahoma.

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## ASSOCIATE FACULTY

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1976-1977

### DENTAL HYGIENE

BAUMHOFER, ANNE H., B.S., Ohio State University; Lecturer in Oral Pathology, SHCS/SAFB.

BOYD, DOUGLAS C., B.S., University of Idaho, D.M.D., University of Oregon, M.S.D., University of Oregon, Chief, Endodontic Section, Sheppard Air Force Base.

CASON, LARRY, D.D.S., Baylor College of Dentistry; M.S.D., University of Minnesota; Lecturer in Oral Pathology.

CURTIS, WILLIAM J., D.D.S., University of Maryland; M.S.D., University of Texas at Austin; Lecturer in Periodontology, SAFB Regional Hospital.

GREEN, LARRY, D.D.S., University of Michigan, Chief, Diagnosis and Oral Hygiene Section, Sheppard Air Force Base.

IRVINE, ELEANOR S., B.A., Elmira College; M.D., Ph.D., Tulane University; Lecturer in Oral Pathology.

LEVY, BERNARD P., D.D.S., Loyola of New Orleans; M.S.D., University of Minnesota; Lecturer in Periodontology.

RICHARDSON, JAMES E., D.D.S., Marquette University; Ph.D., University of Iowa; Chief, SHCS/SAFB Department of Dentistry.

RUGELEY, ROBERT, D.D.S., University of Texas at Austin; M.S.D., University of Minnesota; Lecturer in Oral Pathology.

SHILLER, EDWIN B., D.D.S., University of Maryland; Course Supervisor for Preventive Dentistry and Assistant Chief, SHCS/SAFB Department of Dentistry.

### MEDICAL TECHNOLOGY

ADAMS, ROBERT M., Graduate USAF Medical Laboratory Specialist and Technical Instructor Programs; SHCS Instructor.

ANDREWS, RODNEY C., B.S., Saginaw Valley State College; SHCS Instructor.

AVERY, KENNETH R., Graduate USAF Medical Laboratory Specialist and Technical Instructor Programs; SHCS Instructor.

BASTIN, GARY E., B.S., Eastern Kentucky University; SHCS Instructor.

BELVEDERE, NANCY, A.S.M.L.T., Midwestern State University; MLT (ASCP), Bethania Hospital.

BEVERING, JO ANN, B.S.M.T., Midwestern State University; Nazareth Hospital School of Medical Technology; Bethania Hospital.



- BONILLA-LINERO, FRANCISCO, MT (ASCP), B.S., University of Hawaii Clinical Instructor.
- BROWN, MICHAEL C., Graduate USAF Medical Laboratory Specialist and Technical Instructor Programs, SHCS Instructor.
- BROWN, PAMELA, B.S., Texas Woman's University; M.S., Baylor University.
- CARRIE, RICHARD J., Graduate USAF Medical Laboratory Specialist and Technical Instructor Programs; SHCS Instructor.
- CARTER, VICTOR H., Graduate USAF Medical Laboratory Specialist and Technical Instructor Programs; SHCS Instructor.
- CHANDLER, DEBRA, A.S.M.L.T., Midwestern State University; MLT(ASCP); Bethania Hospital.
- CHRISTIANSON, BOBBY J., Graduate USAF Medical Laboratory Specialist and Technical Instructor Programs; Bethania Hospital.
- COLLIER, GLENN, JR., B.S., Midwestern State University; City-County Health Unit Bacteriology Specialist.
- CRITES, MILES W., Graduate USAF Medical Laboratory Specialist and Technical Instructor Programs; SHCS Instructor.
- DAVIS, DAVID C., MT(HEW); Graduate USAF Medical Laboratory Specialist and Technical Instructor Programs; SHCS Instructor.
- DURHAM, NARESSA, MT(ASCP), Decatur Baptist College; B.A., Hardin-Simmons University; Baylor University Hospital Medical Technology School.
- ELDER, GERALD C., Graduate USAF Medical Laboratory Specialist and Technical Instructor Programs; SHCS Instructor.
- EUSTICE, JEAN, MT(ASCP) B.S., M.S., Midwestern State University Clinical Instructor.
- FORBES, RITA C., MT(ASCP) B.A., Mississippi State College for Women; Clinical Instructor.
- FOWLER, SANDRA, MT(AMT); Wichita Falls Clinic.
- GELLER, RICHARD JAY, M.D., Medical College of Virginia, Diplomate, American Board of Pathology; Pathologist, Laboratory Service.
- HAGEN, CARL H., MLT(ASCP); MT(ASMT); MT(RLI); B.S., William Carey College; SHCS Instructor.
- HAMILTON, MARSHALL E., M.D., The University of Texas Southwestern Medical School, Chief, Laboratory Services, Regional Hospital Sheppard.
- HANSARD, KATHY, A.S.M.L.T., Midwestern State University; MLT(ASCP); Wichita Falls Clinic.
- HILLERY, NANCY A., MT(ASCP) B.S., Oklahoma State University; Clinical Instructor, Regional Hospital Sheppard.
- HUMPHREY, CASEY J., Graduate USAF Medical Laboratory Specialist and Technical Instructor Programs; SHCS Instructor.
- HUTSELL, KIM C., Graduate USAF Medical Laboratory Specialist and Technical Instructor Programs; SHCS Instructor.
- IRVINE, ELEANOR S., B.A., Elmira College; M.D., Ph.D., Tulane University; Bethania Hospital.
- JENKINS, JOHN, A.S.M.L.T., Midwestern State University; MLT(ASCP); Bethania Hospital.
- JONES, HARVEY A., Graduate USAF Medical Laboratory Specialist and Technical Instructor Programs; SHCS Instructor.
- KELLY, CARLETT, A.S.M.L.T., Midwestern State University, Registry Eligible.
- KRAVULSKI, CHARLES E., Graduate USAF Medical Laboratory Specialist and Technical Instructor Programs; SHCS Instructor.

- LaHOOD, GEORGE, B.S., Texas A&M University; Chief, Department of Biomedical Sciences.
- LANDER, ROBERT E., Graduate USAF Medical Laboratory Specialist and Technical Instructor Programs; SHCS Instructor.
- LeFON, CARTER G., B.S. University of Richmond; Clinical Instructor, Regional Hospital Sheppard.
- LOVOY, STEPHEN A., B.S., University of Alabama; SHCS Instructor.
- LOWRANCE, MARILYN, B.S.M.T., Oklahoma State University; MT(ASCP), Bethania Hospital.
- McCALL, PRESTON, M.D., Baylor University College of Medicine; Wichita Falls Clinic.
- McKISSICK, JACK E., B.S., University of Oklahoma; M.P.H. in Laboratory Sciences, University of California at Berkeley; SHCS Educational Coordinator, Sheppard AFB.
- McLERAN, THOMAS C., MT(AMT); Graduate USAF Medical Laboratory Specialist and Technical Instructor Programs; SHCS Instructor.
- MECKSTROTH, JANE H., B.S., University of Oklahoma, Clinical Instructor Regional Hospital Sheppard.
- MORMAN, GWEN Y., B.S.M.T., MT(ASCP), Midwestern State University; Wichita General Hospital School of Medical Technology; Bethania Hospital.
- MUDD, JAMES N., Graduate USAF Medical Laboratory Specialist and Technical Instructor Programs; SHCS Instructor.
- MUENSTER, DANIEL, B.A., University of Texas at Austin; U.S. Navy Medical Laboratory School; Registered Microbiologist with American Board of Microbiology; Wichita Falls Clinic.
- ONLEY, JOEL B., MT(AMT); Bethania Hospital.
- ORINA, ADOLF D., A.A., M.D., University of the Philippines; Bethania Hospital, Lecturer and Consultant in Hematology.
- ROBERTS, RICHARD, B.A., Augustana College; A.S., Midwestern State University; SHCS Instructor.
- ROLLINS, STEVEN H., Graduate USAF Medical Laboratory Specialist and Technical Instructor Programs; SHCS Instructor.
- ROSE, DAVID W., MT(HEW); Graduate USAF Medical Laboratory Specialist and Technical Instructor Programs; SHCS Instructor.
- SANDERS, DON E., Graduate USAF Medical Laboratory Specialist and Technical Instructor Programs; SHCS Instructor.
- SARAZAN, FRANCES C., MT(ASCP); B.S., University of Miami; SHCS Instructor.
- SHORT, VICKI, A.S.M.L.T., Midwestern State University, Registry Eligible.
- SINK, REBECCA, B.S.M.T., Midwestern State University; MT(ASCP), Bethania Hospital.
- SMITH, PHILIP, Graduate USAF Medical Laboratory Specialist and Technical Instructor Programs; SHCS Instructor.
- SMOLKO, JOSEPH P., MT(AMT); Bethania Hospital.
- THOMAS, DANIEL M., Graduate USAF Medical Laboratory Specialist and Technical Instructor Programs; SHCS Instructor.
- TOWLES, DARLA, A.S.M.L.T., Midwestern State University; MLT(ASCP); Wichita Falls Clinic.
- TRAHAN, TOY, K., Clinical Instructor, Regional Hospital Sheppard.
- WILLIAMS, JEANNE, B.S., MT(ASCP), Texas Christian University; Harris County Medical Center School of Medical Technology; Bethania Hospital.
- WILSON, MYRL E., M.S., University of Kansas; SHCS Department of Biomedical Sciences.

WITZGALL, FRED E., B.A., M.A., University of Texas at Austin; SHCS Course Supervisor.

### MUSIC

PAL, FRANK, Graduate of the Opera Ballet School in Prague; Advanced study in traditional style of St. Petersburg; Stage Director for the MSU Opera Theatre.

PAL, IRINA KLADIVOVA. Graduate of the Opera Ballet School in Prague; Advanced study in traditional style of St. Petersburg; Stage Director for the MSU Opera Theatre.

### POLITICAL SCIENCE

FOX, GERALD, M.P.A., Kansas State University; Lecturer in Public Administration and Public Policy.

### PSYCHOLOGY

CESARE-MURPHY, MARY, Ph.D., Texas Tech University; Practicum Supervisor, Mental Health-Mental Retardation Center.

### RADIOLOGIC TECHNOLOGY

ADAMS, JOHNNIE, RT(ARRT), Chief Technologist and Clinical Instructor, Shannon West Texas Memorial Hospital, San Angelo.

ALLEN, DAVID H., M.D., University of Tennessee, Chief Radiologist, Wichita General Hospital, Wichita Falls.

BALL, JOHN M., JR., RT(ARRT); B.S., Northern Illinois University; SHCS Instructor.

BALLARD, JOHN E., M.D., Northwestern University, Chicago, Chief Radiologist, Shannon West Memorial Hospital, San Angelo.

BANKS, VIRGINIA, RT(ARRT); Clinical Instructor at Medical Arts Building.

BARTSCH, JOHN FREDERICK, RT (ARRT); SHCS Instructor.

BERCHTOLD, CARROLL L., RT (ARRT); SHCS Instructor.

BOOTH, HENRY A., RT (ARRT); SHCS Instructor.

BOSE, K.T., M.D., Trivandrum Medical College at Kerala, India; Radiologist, Wichita Falls Clinic and Bethania Hospital.

BRION, JOHN E., RT (ARRT); SHCS Instructor.

BROADHURST, JULIE C., ASRT, (ARRT); Midwestern State University; Clinical Instructor, Wichita General Hospital.

BROWNE, FRANK S., M.D., Columbia University; Radiologist, Wichita General Hospital.

BUETTNER, RALPH T., SR., RT (ARRT); School of Health Care Sciences, Instructor.

CARDENAS, VICTORIA, RT(ARRT); Clinical Instructor, Bethania Hospital.

CARMONEY, WALTER J., JR., M.D., Medical College of Virginia; Directing Radiologist of Cooperative Radiologic Technology Program, Staff Radiologist at Wichita General Hospital.

CARRIGLITTO, EDWARD J., RT(ARRT); School of Health Care Sciences, Instructor.

CHAMBERS, KEITH H., RT(ARRT); SHCS Instructor.

CHUNN, SAMUEL P., M.D., University of Texas, Galveston, Radiologist, Shannon West Texas Memorial Hospital, San Angelo.

COCHRAN, JOHN WILLIAM, A.S.R.T. (ARRT), Midwestern State University; Bethania Hospital.

COSSEY, PAULA, A.S.R.T. (ARRT), Midwestern State University; Clinical Instructor, Wichita General Hospital.

- DAMASKA, JANET, RT(ARRT); Beaver County Medical Center in Rochester, Pa.; Clinical Instructor, Bethania Hospital.
- DENNY, JAMES W., RT(ARRT); SHCS Radiology Course Supervisor.
- FENTON, RONALD, M.D., University of Texas, Southwest Medical School, Radiologist, Shannon West Texas Memorial Hospital, San Angelo.
- FOSTER, LLOYD A., RT(ARRT); SHCS Assistant Course Supervisor.
- GEYER, C. MAC, B.A., M.D., Kansas University; Wichita General Hospital Staff Radiologist.
- GEORGE, DONNA KAY, ASRT (ARRT); Joseph Technical Institute, North Carolina; Clinical Instructor, Wichita General Hospital.
- GILL, LUKE, RT(ARRT); Clinical Instructor, Bethania Hospital.
- HECK, FREEMAN J. III, B.S.R.T. (ARRT), Midwestern State University; SHCS Instructor.
- HERRERA, DONALD J., RT(ARRT); School of Health Care Sciences, Instructor.
- HODGE, BRIAN T., RT(ARRT); SHCS Instructor.
- HOLT, MARK H., ASRT (ARRT); Los Angeles City College; School of Health Care Sciences, Instructor.
- HONE, RICHARD C., B.S.R.T. (ARRT), Midwestern State University; SHCS Instructor.
- HOOPER, DUDLEY L., A.S.R.T. (ARRT), Midwestern State University; Clinical Instructor, Bethania Hospital.
- JOHNSON, EDWARD J., A.S.R.T. (ARRT), Midwestern State University; SHCS Instructor.
- JONES, TERRI LEA, A.S.R.T. (ARRT), Midwestern State University; Clinical Instructor, Bethania Hospital.
- KEITH, WALTER D., RT(ARRT); School of Health Care Sciences, Instructor.
- KOOKEN, RANDOLPH L., RT(ARRT); School of Health Care Sciences, Instructor.
- LAWSON, LARRY, RT(ARRT); Clinical Instructor, Wichita General Hospital.
- LEWIS, JAY D., RT(ARRT); SHCS Instructor.
- MASTERS, THOMAS P., RT(ARRT); School of Health Care Sciences, Instructor.
- MAYSE, MARGIE, A.S.R.T. (ARRT), Midwestern State University; Clinical Instructor, Wichita General Hospital.
- McBRIDE, MIKE, A.S.R.T. (ARRT), Midwestern State University; Clinical Instructor, Wichita General Hospital.
- McKEE, DWAYNE, A.S.R.T. (ARRT), Midwestern State University; Clinical Instructor, Wichita General Hospital.
- PEGG, JANET, A.S.R.T. (ARRT), Midwestern State University; Clinical Instructor, Wichita General Hospital.
- RUTLEDGE, JO ANN, RT(ARRT); Clinical Instructor, Wichita General Hospital.
- SEARLES, JOHN G., RT(ARRT); SHCS Instructor.
- SHORT, HARVEY J., RT(ARRT); School of Health Care Sciences, Instructor.
- SNYDERMAN, MARK D., RT(ARRT); School of Health Care Sciences, Instructor.
- SUTTON, RICHARD NEEL, M.D., M.S.E.E., University of Missouri; Wichita General Hospital Staff Radiologist.
- TIDMORE, WILLIAM, M.D., University of Arkansas School of Medicine; Bethania Hospital Chief of Radiology.
- WARREN, GAYE, ASRT (ARRT); Midwestern State University, Clinical Instructor, Wichita General Hospital.
- WILSON, JOHN C., RT(ARRT); School of Health Care Sciences, Instructor.
- WILSON, MYRL, B.S.; Pennsylvania State University; M.S.; University of Kansas; Chief, Department of Medicine.



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**EMERITI FACULTY**

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- AKIN, NITA, Mus.D., **Professor of Organ**, 1949-1967.
- BERNARD, CICERO H., B.S., M.S., **Professor and Chairman of the Department of Physics**, 1961-1971.
- BOREN, JAMES B., B.A., B.Ed., M.Ed., Ph.D., LL.D., HH.B., **President**, 1942-1955.
- CASEY, WILLIE LEE, B.A., M.Ed., **Assistant Professor and Associate Librarian**, 1956-1963.
- CROFFORD, VERNER R., B.A., M.A., **Associate Professor of Mathematics**, 1957-1970.
- DAVIS, MADGE, B.A., M.A., Ph.D., **Professor and Chairman of the Department of English and Journalism**, 1926-1963.
- DIDZUN, LUCILE A., B.A., M.A., **Professor and Chairman of the Department of Music**, 1937-1960; **Professor of Music**, 1960.
- DUNCAN, CHESTER J., B.A., M.A., **Assistant Professor of Mathematics**, 1942-1964.
- EDWARDS, A.F., B.A., M.A., **Professor of History and Government**, 1923-1958.
- ESKEW, CLETIS T., B.S., M.S., Ed.D., **Professor of Biology, Dean of Graduate Studies and Associate Dean of Instruction**, 1942-1969.
- GALBRAITH, CLAIRE, B.A., M.A., **Assistant Professor of English**, 1947-1964.
- GUILLET, NICHOLAS J., B.S., **Associate Professor of Education**, 1948-1964.
- HADDON, JOE L., B.S., M.Ed., M.A., Ed.D., **Professor of Music**, 1961-1973.
- HINDMAN, JENNIE LOUISE, B.S., M.A., Ph.D., **Professor and Chairman of the Department of Speech and Drama**, 1942-1973.
- HUNT, B. ISABELLE, B.A., M.A., Ph.D., **Professor of Political Science**, 1951-1976.
- KINSEY, JUANITA, B.A., M.A., **Dean of Women and Associate Professor of Speech and Drama**, 1926-1958.
- LIGON, D. L., B.A., M.Ed., Ed.D., **Professor of Health and Physical Education**, 1937-1970.
- LONG, JESSIE L., B.A., M.A., **Assistant Professor of Mathematics**, 1947-1968.
- MOWRER, CLARA MAE, B.S., M.A., **Assistant Professor of Business Administration**, 1949-1959.
- NEELLEY, ROBERT LLOYD, B.S., M.A., **Associate Professor of History**, 1956-1970.
- RABORN, MAMIE, B.A., M.A., **Associate Professor of Economics and Instructor in German**, 1922-1958.
- RAPPOLEE, WALTER E., B.S., M.Ed., Ed.D., **Professor of Education**, 1955-1973.
- ROBERTSON, FRANK D., B.A., M.A., Ph.D., **Professor of Economics**, 1951-1966.
- SULLIVAN, BERYL, B.S., M.A., M.S., **Professor of English**, 1948-1966.
- WHITE, TRAVIS A., B.A., B.D., D.D., LL.D., **President**, 1956-1974.



## HARDIN PROFESSORS AND SCHOLARS

Beginning with the academic year 1961-62, the Hardin Foundation for Wichita County established an annual award for a member of the Midwestern State University faculty whose teaching and research of the preceding 12 months had brought distinction to himself and the institution. The award is currently \$1,500.

|                       |           |
|-----------------------|-----------|
| WALTER W. DALQUEST    | 1961-1962 |
| FLOYD F. EWING        | 1962-1963 |
| CICERO H. BERNARD     | 1963-1964 |
| WALTER L. WEHNER      | 1964-1965 |
| JOSEPH SATIN          | 1965-1966 |
| JOHN W. MEUX          | 1966-1967 |
| JOSEPH E. ROSE        | 1967-1968 |
| E. KENT HUGHES        | 1968-1969 |
| F. ROBERT MADERA      | 1969-1970 |
| NEIL B. HOLLIMAN      | 1970-1971 |
| JESSE W. ROGERS       | 1971-1972 |
| T. BARLOW HILL        | 1972-1973 |
| K. E. HENDRICKSON JR. | 1973-1974 |
| ELDON H. SUND         | 1974-1975 |
| NORMAN V. HORNER      | 1975-1976 |

Likewise in 1961-62 the Hardin Foundation established an annual award of \$1250 for a student whose scholastic achievements and participation in university activities during the preceding year had brought distinction to himself and Midwestern State University.

|                         |           |
|-------------------------|-----------|
| JOHNNY WALBRICK         | 1961-1962 |
| JANICE ELAINE LAIDLEY   | 1962-1963 |
| HARVEY MARTZ            | 1963-1964 |
| FRANCES DARLENE REIMERS | 1964-1965 |
| JUDY WATTS              | 1965-1966 |
| JOHN EVERETT RHOADS     | 1966-1967 |
| KENNETH SIBER           | 1967-1968 |
| LINDAL NEWBY            | 1968-1969 |
| PEGGY SPRING            | 1969-1970 |
| DAVID M. JONES and      |           |
| STEPHEN K. MOOREHEAD    | 1970-1971 |
| JEANNA BETH MOORE       | 1971-1972 |
| JOSEPH S. HOOD JR. and  |           |
| REBECCA HAWKINS POND    | 1972-1973 |
| DONNA GRIMSLEY EARP     | 1973-1974 |
| JOHN T. HEATH           | 1974-1975 |
| CHARLOTTE ANN WEBB      | 1975-1976 |

## I N D E X

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Since a campus visit is usually highly beneficial for the applicant, local and area residents are encouraged to confer with the admissions staff in lieu of submitting this form. Office hours are 8 a.m.-5 p.m. Monday-Friday, except holiday periods.

For those who are unable to visit the admissions office, please complete the form below.

Office of the Registrar  
Midwestern State University  
Wichita Falls, Texas 76308

Application Request Form

Your cooperation in submitting the information requested on this form will better enable the Office of the Registrar to assist you and answer your questions with greater insight as plans are made for college enrollment.

Male ..... Female .....

Name ..... Single ..... Married .....

Mailing Address ..... Zip Code .....

Parent or Guardian Name .....

Address .....

I would like to enroll at Midwestern State University in the following classification

..... Beginning Freshman (never previously enrolled in any college)  
..... Attended ..... High School  
..... Date of Graduation (or proposed date) .....  
..... Have you taken: American College Test? Yes ..... No .....  
..... Scholastic Aptitude Test? Yes ..... No .....  
..... Freshman (previously enrolled in college) 0-29 semester hours earned  
..... Sophomore 30-59 semester hours earned  
..... Junior 60-89 semester hours earned  
..... Senior 90 or more semester hours earned  
..... Graduate List degree(s) held .....

List colleges attended, including Midwestern State University, if applicable:  
..... Year .....  
..... Year .....

List any additional colleges on reverse side.

Are you on academic, scholastic or disciplinary probation, suspension, or dismissal?  
Yes ..... No ..... Explain: .....

What is your major field of study or profession for which you plan to prepare? .....

When do you plan to enroll? Fall .... Spring .... Summer .... Semester.  
Year .....

Please use the reverse side of this form to make additional comments or to list questions you may have about Midwestern State University.





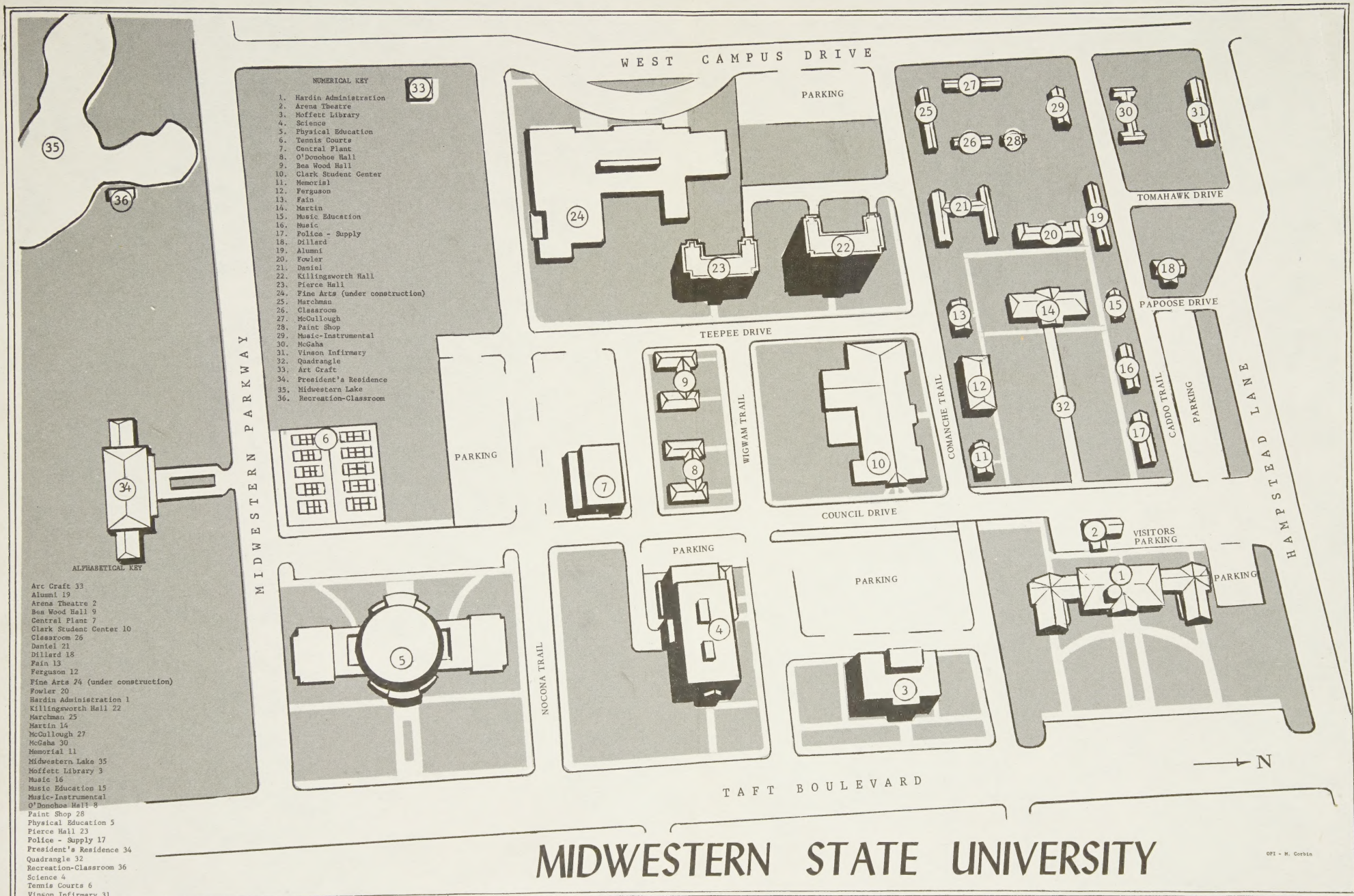


# MAP OF THE UNIVERSITY





# MAP OF THE UNIVERSITY









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Midwestern State University  
3400 Taft Blvd.  
Wichita Falls, TX 76308